

Soil Excavation Summary Report  
**26-Acre Vacant Lot Property**  
2600 Duncan Road  
Lafayette, Indiana 47901  
U.S. EPA Project No.: BF-96564001-1

Prepared For:

Mr. E. Dana Smith  
Acting Director  
Greater Lafayette Community Development Corporation  
337 Columbia Street  
P.O. Box 348  
Lafayette, IN 47902-0348

Prepared By:

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7428 Rockville Road  
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October 27, 2008





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Mr. E. Dana Smith  
Acting Director  
Greater Lafayette Community Development Corporation  
337 Columbia St  
P. O. Box 348  
Lafayette, IN 47902-0348

Re: Soil Excavation Summary Report  
**26-Acre Vacant Lot Property**  
2600 Duncan Road  
Lafayette, Indiana 47901  
Tippecanoe County  
U.S. EPA Project No. BF-96564001-1

Dear Mr. Smith:

Industrial Waste Management Consulting Group, LLC (IWM Consulting) is submitting this Soil Excavation Summary Report to the Greater Lafayette Community Development Corporation (GLCDC) in order to summarize the results of the most recent environmental activities completed at the 26-Acre Vacant Lot Property (Site) in September and October 2008. The United States Environmental Protection Agency (USEPA) awarded Tippecanoe County with a Hazardous Substance Brownfields Assessment Grant in order to cover the cost of a previous Phase I Environmental Site Assessment (ESA) and a subsequent Phase II subsurface investigation. Both environmental investigations identified a swale area in the central portion of the Site which reportedly was historically utilized as a private landfill. Consequently, IWM Consulting recommended to the GLCDC that they request the existing property owner (Canal Partners, LLC) to install a series of test trenches in the central swale area of the Site to confirm or negate the presence of buried trash and/or debris. The owner agreed to install the test trenches and this report summarizes the results of the test trenches and subsequent field work. The cost of the test trenches and subsequent field work was not funded by the USEPA Hazardous Substance Brownfield Assessment Grant.

#### **Background Information**

On February 25, 1992, Heritage Remediation and Engineering, Inc. (HR/E) provided a Site Activities Letter Report for the Grace Property (corresponds to the Site). The letter report detailed the removal of 42 truck loads or 585 tons of waste materials and construction debris from a pit in the central portion of the Site. The waste materials consisted of refrigerators, water heaters, tires, chemical containers, and wood products. The letter report listed the Ed Grace Company (plumbing contractor) as the primary contributor of the waste materials. HR/E used an Organic Vapor Analyzer (OVA) to monitor for the presence of airborne Volatile Organic Compounds (VOCs). Subsequent OVA readings obtained from the pit, while the waste materials were removed, revealed no readings above background conditions. Additionally, exploratory holes were excavated at ten to fifteen foot intervals along the bottom of the excavation area. The holes were excavated to a depth below which no more waste was found (approximately 2 - 6 feet). The debris observed in the holes was similar to the debris previously

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encountered. Reportedly, no visible materials were noted that presented significant environmental concerns. Additional excavation activities were discontinued based on these findings. The exploratory holes were then backfilled and the area was roughly graded; however, the excavation cavity was left open for potential future investigations/actions. It was noted that HR/E could not make definitive statements as to whether the surface and/or subsurface had been contaminated. Furthermore, an extensive investigation of soil and groundwater would be necessary to gather sufficient information for a complete assessment of site conditions.

It was later confirmed by IWM Consulting that the excavated pit area coincides with the swale area located in the central portion of the Site, which was identified in the IWM Consulting Phase I ESA site inspection conducted on March 19, 2008.

On February 20, 1998, a Phase I ESA report of the Property was completed by Alt & Witzig Engineering, Inc. The previous Phase I ESA stated that a fill pipe and vent pipe associated with a heating oil UST were observed extending from the basement on the north side of the former two-story residence/clubhouse in 1998. The previous Phase I ESA indicated that access to the basement of this building was not provided; therefore, there was no indication as to whether the heating oil tank in question was in fact a UST or AST. IWM Consulting was unable to verify the closure status (i.e. removal) of the heating oil tank in the basement of the former two-story residence/clubhouse through record reviews and observations during the site inspection conducted on March 19, 2008. During the 1998 site reconnaissance, a battery was also observed on the northeast portion of the Property. IWM Consulting observed a battery in the same area during the site visit on March 19, 2008.

On June 19, 2004, a Phase I ESA report of the Property was completed by PHASE I Environmental Engineering. According to the report, "No known or suspect environmental conditions were identified." Furthermore, the environmental assessment revealed no evidence of Recognized Environmental Conditions (RECs) in connection with the property.

On April 2, 2008, IWM Consulting completed an AAI compliant Phase I ESA for the GLCDC. Based on the site inspection, review of the historical records, and examination of environmental records for adjacent properties, IWM Consulting recommended a comprehensive Phase II Subsurface Investigation. The Phase II Subsurface Investigation would determine if the Property has been further impacted by past on-site and off-site operating activities, in the areas along the south boundary of the Property; and in the proximity of the former heating oil UST or AST and swale location.

On August 20, 2008, IWM Consulting completed an Initial Assessment Report for the GLCDC which consisted of the advancement of eight soil borings (GP-01 through GP-08) and the collection of soil and groundwater samples. Based on site observations and analytical data obtained at the Site during the July 2008 investigation, subsurface site conditions did not indicate evidence of a hazardous or petroleum release at the Site. Miscellaneous landfill debris was not observed in any of the soil borings during installation activities; although it should be noted that due to above ground restrictions (i.e. trees & brush), IWM Consulting personnel could not install soil borings immediately above the area suspected to be the former private landfill.

Future site development activities (potentially a Juvenile Justice Center) are expected to include the construction of a commercial building(s), parking lots, and other open areas. These development areas encompass the swale located in the central portion of the Site. Consequently, IWM Consulting recommended that further investigation activities be completed in the swale to verify subsurface

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conditions. A copy of the proposed Master Plan for the Juvenile Justice Center is included in **Appendix A.**

### **Initial Test Trenches**

The owner of the property contracted representatives from Tri-Esco to install a total of three test trenches in the northern, central, and southern portions of the swale. The north test trench was installed to a depth of 6 feet below land surface (BLS), the central test trench was installed to a depth of 10 feet BLS, and the south test trench was installed to a depth of 8 feet BLS. Household trash (paper, glass, soda cans, and plastic) and debris (tires, insulation, piping, rubber hoses, wood, water heaters, and various pieces of metal) were encountered in all of the test trenches at a depth beginning at approximately 2 feet BLS. The debris extended to depths ranging between 6 and 8 feet BLS. IWM Consulting personnel obtained five (5) grab soil samples from the test trenches and field screened the soil samples with a flame ionization detector (FID). All of the soil samples had FID readings less than 5 parts per million vapor (ppmv).

Based on the results of the test trenches, it was determined that the entire swale area needed to be grubbed and cleared of brush, vegetation, and trees and that the underlying trash and debris needed to be removed from the Site. Confirmatory soil samples would be obtained from the sidewalls and base of the excavation and from the excavated soil in order to verify the presence or absence of total petroleum hydrocarbons (TPH) and RCRA-8 Metals.

### **Trash/Debris Removal Activities**

The trash and debris located in the subsurface of the swale located in the central portion of the Site was excavated by representatives from Tri-Esco between September 24, 2008 and October 8, 2008. Tri-Esco was subcontracted by the current property owner and IWM Consulting was subcontracted by Tippecanoe County to document the removal activities and to obtain confirmatory soil samples for field screening and analytical analyses.

Initially, Tri-Esco removed the brush, vegetation, and trees from the swale and the top two (2) to three (3) feet of soil. The top two (2) to three (3) feet of soil did not contain trash or debris and was subsequently placed along the western side of the swale and utilized to construct a temporary road for use during the excavation project. A total of eleven (11) soil samples (FS-1 through FS-11) were obtained from the excavated material for field screening purposes and five (5) soil samples (SS-1 through SS-5) were obtained from laboratory analysis. All of the soil samples had FID readings less than 1 ppmv. The confirmatory soil samples (SS-1 through SS-5) were delivered under chain-of-custody controls to Pace Analytical Services, Inc. located in Indianapolis, Indiana. The soil samples were submitted for analysis of total petroleum hydrocarbon-gasoline range organics (TPH-GRO) and extended range organics (TPH-ERO) using SW846 Method 8015 and percent moisture. In addition to the TPH and percent moisture analyses, the soils samples were also analyzed for RCRA-8 Metals using the appropriate SW846 Methods.

Excavation activities at the Site were initiated in the northern portion of the swale and preceded toward the south. The base of the swale was over-excavated to depths ranging between seven (7) and ten (10) feet BLS, which corresponds to approximately fifteen (15) to eighteen (18) feet below the surface elevation of the topography surrounding the swale. The total dimension of the area excavated is approximately 400 feet long (North to South) x 20 feet wide (West to East). The sides of the excavation extend upward at an approximate 45° angle for another 15 feet, making the total width of the excavation approximately 50 feet.

The excavated material was initially passed through a mechanical powered screener, which separates out larger pieces of trash, debris, and rocks from the native sandy soil. The sandy soil was discharged from the power screener and stockpiled onsite. The trash and debris were removed from the power screener and stored in a separate stockpile for subsequent disposal at a local solid waste transfer facility (Tippecanoe County Transfer Station).

The trash and debris observed during the excavation activities consisted of the following: crushed, empty 55-gallon drums (unlabeled), barbed wire, fiberglass insulation, glass, metal and plastic pieces and piping, paper, water heaters, tires, wiring, cans (food and drink containers), metal springs, bottles, wood, porcelain and toilets, sink fixtures, plastic sheeting and tarps, concrete pieces, electrical conduit, empty oil cans and smaller (<10 gallons) containers formerly used to store petroleum or anti-freeze. IWM Consulting did not observe any fluids within the containers and did not observe any stained soil during the excavation project.

A total of one-hundred and one (101) additional grab soil samples (FS-12 through FS-112) were obtained during the excavation activities and field screened with a photo-ionization detector (PID) and FID. Only one soil sample (FS-43) had a PID or FID reading exceeding 5 ppmv. In particular, the only soil sample with a PID above 5 ppmv was obtained from the sorted, stockpiled soil and had a PID reading of 12.1 ppmv (FS-43).

A total of twenty-one (21) additional confirmatory soils samples were obtained during the excavation activities and submitted for laboratory analysis of TPH-GRO, TPH-ERO, and RCRA-8 Metals. Only one confirmatory soil sample had a PID or FID reading in excess of 5 ppmv (Stockpile 3 had a PID reading of 45.9 ppmv). All of the volatile soil samples submitted for laboratory analysis during the course of this investigation were obtained in general accordance with Indiana Sampling Method 5035M.

All of the segregated, stockpiled soil currently remains onsite and is anticipated to be utilized at the Site during future site development activities. Additionally, the segregated, stockpiled trash and debris still remains at the Site but the current property owner has committed to removing this material and disposing it an approved solid waste landfill prior to the real estate transaction being completed.

The field screening results are summarized on **Table 1** and the soil sampling locations are displayed on **Figure 1**. Photographic documentation of the soil excavation activities is included in **Appendix B**.

### **Background Soil Sampling**

IWM Consulting obtained three (3) background surface soil samples (Background NE, Background NW, and Background SW) from the Site on October 20, 2008. The soil samples were obtained from the northeast, northwest, and southwest portions of the Site and were submitted for laboratory analysis of Arsenic using SW846 Method 6010. Arsenic was the only constituent detected at the Site that consistently was above the Risk Integrated System of Closure Residential Default Closure Level (RISC-RDCL). Therefore, background surface soil samples were obtained to document and establish typical arsenic concentrations for this Site.

### **Soil Analytical Results**

Five grab soil samples (SS-1 through SS-5) were obtained from the native soil located above the trash and debris layer and five grab soil samples (Stockpile 1 through Stockpile 5) were obtained from the stockpiled, segregated native sandy soil (after passing through the power screener). Five grab soil

samples (Base 1 through Base 5) were obtained from the base of the excavation and eleven grab soil samples (Sidewall 1 through Sidewall 11) were obtained from the sidewalls of the excavation. One duplicate soil sample and one matrix spike/matrix spike duplicate (MS/MSD) soil sample were obtained as part of the project quality assurance/quality control measures. All of the soil samples were submitted for laboratory analysis of TPH-GRO, TPH-ERO, and RCRA-8 Metals.

All of the soil samples obtained from the soil located above the trash/debris layer and from the base and sidewalls of the excavation had adsorbed TPH-GRO, TPH-ERO, barium, cadmium, chromium, lead, mercury, selenium, and silver concentrations less than the corresponding RISC RDCL. Three soil samples (Stockpile 1, Stockpile 4, and Stockpile 5) obtained from the stockpiled, segregated native sandy soil (after passing through the power screener) had adsorbed TPH-GRO, TPH-ERO, barium, cadmium, chromium, lead, mercury, selenium, and silver concentrations less than the corresponding RISC RDCL.

Two soil samples (Stockpile 2 and Stockpile 3) obtained from the stockpiled, segregated native sandy soil had adsorbed chemicals of concern (COC) concentrations exceeding the corresponding RISC RDCL. Specifically, soil sample Stockpile 2 had adsorbed lead and mercury concentrations in excess of the corresponding RISC RDCL and soil sample Stockpile 3 had adsorbed TPH-ERO and lead concentrations in excess of the corresponding RISC RDCL. All of the remaining COCs had adsorbed concentrations less than the corresponding RISC RDCL.

Twenty-five (25) of the twenty-six (26) confirmatory soil samples had adsorbed arsenic concentrations in excess of the corresponding RISC RDCL and nineteen (19) of the confirmatory soil samples had arsenic concentrations in excess of the corresponding RISC Industrial Default Closure Level (IDCL). However, all of the soil samples had adsorbed arsenic concentrations less than the corresponding RISC Industrial Default Soil Direct Contact level. IWM Consulting evaluated this data and discussed the results with representatives from the Indiana Brownfield Program and both parties agreed that the elevated arsenic concentrations observed at the Site are likely within typical background concentrations for naturally occurring arsenic. Consequently, it was determined that three (3) background surface soil samples should be obtained at the Site in order to document background adsorbed arsenic concentrations.

Two (Background NE and Background SW) of the three background surface soil samples had adsorbed arsenic concentrations in excess of the corresponding RISC RDCL and RISC IDCL. All of the soil analytical results are summarized in **Table 2** and the soil sampling locations are displayed on **Figure 1**. The laboratory analytical reports are included in **Appendix C**.

## **Conclusions**

Based on the results of the soil excavation activities completed at the Site in September and October 2008, the following conclusions have been developed:

- Trash and debris was present in the subsurface of the swale located in the central portion of the Site at depths ranging between 2 and 8 feet BLS. All of the trash/debris was removed from the subsurface in this area of the Site and segregated from the native sandy soil. The trash and debris is currently temporarily stockpiled onsite and the current property owner has committed to removing the stockpiled trash/debris before the real estate transaction is completed. The excavation remains open at this time and has not been backfilled.
- A total of 112 soil samples were obtained during excavation activities and field screened with a PID and FID. All of the soil samples with the exception of one had PID or FID readings less than

5 ppmv. This soil sample was obtained from the stockpiled, segregated native sandy soil. This stockpile is currently located south of the existing excavation.

- A total of twenty-six (26) confirmatory soil samples were obtained for laboratory analysis of TPH-ERO, TPH-GRO, and RCRA-8 Metals. Twenty-four (24) of the twenty-six (26) soil samples had adsorbed TPH-GRO, TPH-ERO, barium, cadmium, chromium, lead, mercury, selenium, and silver concentrations less than the corresponding RISC RDCL.
- Two soil samples (Stockpile 2 and Stockpile 3) obtained from the stockpiled, segregated native sandy soil currently located south of the excavation had adsorbed COC concentrations in excess of the RISC RDCL. Specifically, soil sample Stockpile 2 had adsorbed lead and mercury concentrations in excess of the corresponding RISC RDCL and soil sample Stockpile 3 had adsorbed TPH-ERO and lead concentrations in excess of the corresponding RISC RDCL. All of the remaining COCs had adsorbed concentrations less than the corresponding RISC RDCL.
- Twenty-five (25) of the twenty-six (26) confirmatory soil samples had adsorbed arsenic concentrations in excess of the corresponding RISC RDCL and nineteen (19) of the confirmatory soil samples had arsenic concentrations in excess of the corresponding RISC Industrial Default Closure Level (IDCL).
- Three (3) background surface soil samples were obtained for laboratory analysis of arsenic. Two (2) of the three (3) background surface soil samples had adsorbed arsenic concentrations in excess of the corresponding RISC IDCL.
- Based on the results of the confirmatory analytical soil samples and the background soil samples, it has been determined that the adsorbed arsenic concentrations observed at the Site are indicative of background metal concentrations that naturally occur in unconsolidated deposits throughout the Midwestern United States and are not necessarily indicative of a hazardous waste spill/release.
- Although two (2) soil samples obtained from the stockpiled, segregated native sandy soil had either adsorbed TPH-ERO, lead, or mercury concentrations in excess of the corresponding RISC RDCL, the corresponding average concentrations are less than the corresponding RISC RDCL. Therefore, as long as the soil remains onsite, additional soil remediation activities are not warranted at the Site.
- Although a significant amount of trash and debris was located throughout the subsurface of the swale located in the central portion of the Site, site observations and confirmatory soil analytical results indicate that this area of the Site has not been adversely impacted from a hazardous waste spill/release. The excavation extended to depths beyond that native soil/trash interface and no additional trash/debris is known to exist at the Site.

### **Recommendations**

Based on the results of the soil excavation activities completed at the Site in September and October 2008, the following recommendations have been developed:

- The stockpiled trash/debris should be removed from the Site as soon as possible and disposed at an approved solid waste landfill.

- The excavation remains open at this time and will remain open until site development activities occur at the Site. Once the excavation is backfilled, the onsite developer should ensure that the backfilled excavation meets the required geotechnical compaction requirements for the site development activities.
- All of the stockpiled, segregated native sandy soil should remain onsite during development activities or be characterized through sample collection and laboratory analysis if the material must be transported and disposed offsite.
- The GLCDC should request a Comfort Letter from the Indiana Brownfield Program in order to request an exemption of liability as a Bona Fide Prospective Purchaser (BFPP).

Should you have any questions regarding this Soil Excavation Summary Report or require additional information, please contact IWM Consulting at (317) 347-1111.

Sincerely,

**IWM CONSULTING GROUP, LLC**



Patrick E. Rohan, CHMM  
Project Manager



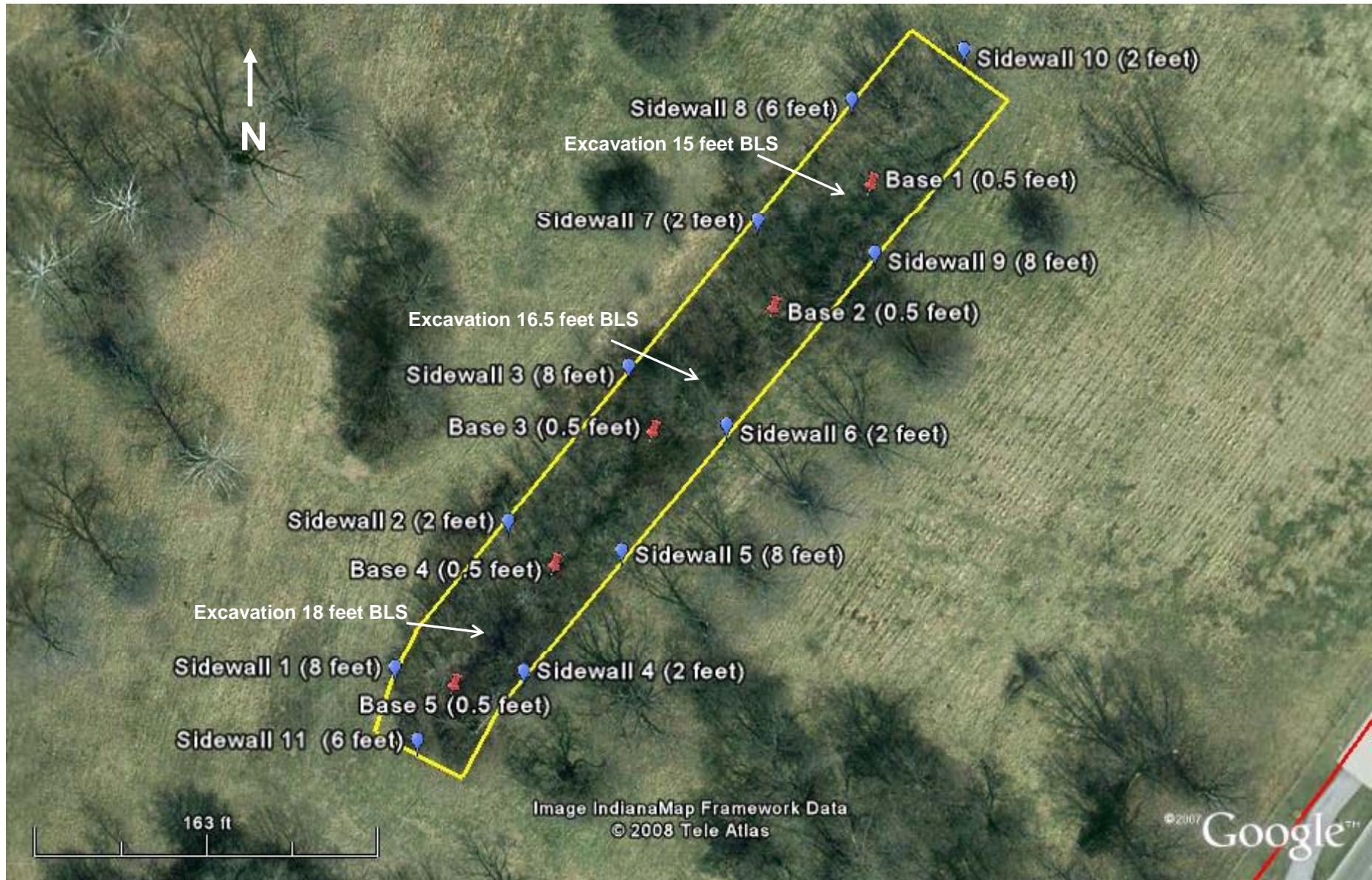
Bradley E. Gentry, LPG  
Senior Project Manager

cc: Jan Pels, USEPA Region V  
Andrea Robertson, Indiana Brownfield Program

**Figure**



# Figure 1 – Excavation and Soil Sample Location Map



**26.0 Acre Vacant Lot  
2600 Duncan Road  
Lafayette, Indiana**

### Legend:

- Excavated Area
- Base Sample Location
- Sidewall Sample Location

## **Tables**

**TABLE 1**  
**FIELD SCREENING RESULTS**  
**26-ACRE VACANT LOT**  
**2600 DUNCAN ROAD**  
**LAFAYETTE, INDIANA**

Sample ID	Date Sampled	Location	FID Reading (ppmv)	PID Reading (ppmv)
FS1	9/24/2008	NEC of excavation	0	0
FS2	9/24/2008	80' S. of NEC of excavation	0	0
FS3	9/24/2008	120' S. of NEC of excavation	0	0
FS4	9/24/2008	160' S. of NEC of excavation	0	0
FS5	9/24/2008	200' S. of NEC of excavation	0	0
FS6	9/24/2008	240' S. of NEC of excavation	0	0
FS7	9/24/2008	280' S. of NEC of excavation	0	0
FS8	9/24/2008	320' S. of NEC of excavation	0	0
FS9	9/24/2008	360' S. of NEC of excavation	0	0
FS10	9/24/2008	380' S. of NEC of excavation	0	0
FS11	9/24/2008	Base, NEC of excavation	0	0
FS12	9/25/2008	Stockpile	0	0
FS13	9/25/2008	Stockpile	0	0
FS14	9/25/2008	Stockpile	0	0
FS15	9/25/2008	Stockpile	0	0
FS16	9/25/2008	Stockpile	0	0
FS17	9/25/2008	Stockpile	0	0
FS18	9/25/2008	Stockpile	0	0
FS19	9/25/2008	Stockpile	0	0
FS20	9/25/2008	Stockpile	0	0
FS21	9/25/2008	Stockpile	0	0
FS22	9/25/2008	Stockpile	0	0
FS23	9/25/2008	Stockpile	0	0
FS24	9/25/2008	Base, 100' S. of NEC of	0	0
FS25	9/26/2008	Stockpile	0	0
FS26	9/26/2008	Base, 110' S. of NEC of	0	0
FS27	9/26/2008	Stockpile	0	0
FS28	9/26/2008	Stockpile	0	0
FS29	9/26/2008	Stockpile	0	0
FS30	9/26/2008	Stockpile	0	0
FS31	9/26/2008	Stockpile	0	0
FS32	9/27/2008	Stockpile	0	0
FS33	9/27/2008	Stockpile	0	0
FS34	9/27/2008	Stockpile	0	0
FS35	9/27/2008	Stockpile	0	0
FS36	9/27/2008	Stockpile	0	0
FS37	9/27/2008	Stockpile	0	0
FS38	9/27/2008	Stockpile	0	0
FS39	9/27/2008	Stockpile	0	0
FS40	9/30/2008	Stockpile	0	0
FS41	9/30/2008	Stockpile	0	3.8
FS42	9/30/2008	Stockpile	0	4.5
FS43	9/30/2008	Stockpile	4	12.1
FS44	9/30/2008	Stockpile	3	3.7
FS45	9/30/2008	Stockpile	0	3.8
FS46	9/30/2008	Stockpile	0	3.2
FS47	10/1/2008	Stockpile	0	0
FS48	10/1/2008	Stockpile	0	0
FS49	10/1/2008	Stockpile	0	0
FS50	10/1/2008	Stockpile	0	0
FS51	10/1/2008	Stockpile	0	0
FS52	10/1/2008	Stockpile	0	0
FS53	10/1/2008	Stockpile	0	0
FS54	10/1/2008	Stockpile	0	0
FS55	10/1/2008	Stockpile	0	0
FS56	10/1/2008	Stockpile	0	0

Sample ID	Date Sampled	Location	FID Reading (ppmv)	PID Reading (ppmv)
FS57	10/1/2008	Stockpile	0	0
FS58	10/1/2008	Stockpile	0	0
FS59	10/2/2008	Stockpile	0	0
FS60	10/2/2008	Stockpile	0	0
FS61	10/2/2008	Stockpile	0	0
FS62	10/2/2008	Stockpile	0	0
FS63	10/2/2008	Stockpile	0	0
FS64	10/2/2008	Stockpile	0	0
FS65	10/2/2008	Stockpile	0	0
FS66	10/3/2008	Stockpile	0	0
FS67	10/3/2008	Stockpile	0	0
FS68	10/3/2008	Stockpile	0	0
FS69	10/3/2008	Stockpile	0	0
FS70	10/3/2008	Stockpile	0	0
FS71	10/3/2008	Stockpile	0	0
FS72	10/3/2008	Stockpile	0	0
FS73	10/3/2008	Stockpile	0	0
FS74	10/4/2008	Stockpile	0	0
FS75	10/4/2008	Stockpile	0	0
FS76	10/4/2008	Stockpile	0	0
FS77	10/4/2008	Stockpile	0	0
FS78	10/4/2008	Stockpile	0	0
FS79	10/6/2008	Stockpile	0	0
FS80	10/6/2008	Stockpile	0	0
FS81	10/6/2008	Stockpile	0	0
FS82	10/6/2008	Stockpile	0	0
FS83	10/6/2008	Stockpile	0	0
FS84	10/6/2008	Stockpile	0	0
FS85	10/6/2008	Stockpile	0	0
FS86	10/6/2008	Stockpile	0	0
FS87	10/6/2008	Stockpile	0	0
FS88	10/6/2008	Stockpile	0	0
FS89	10/6/2008	Stockpile	0	0
FS90	10/6/2008	Stockpile	0	0
FS91	10/7/2008	Stockpile	0	0
FS92	10/7/2008	Stockpile	0	0
FS93	10/7/2008	Stockpile	0	0
FS94	10/7/2008	Stockpile	0	0
FS95	10/7/2008	Stockpile	0	0
FS96	10/7/2008	Stockpile	0	0
FS97	10/7/2008	Stockpile	0	0
FS98	10/7/2008	Stockpile	0	0
FS99	10/7/2008	Stockpile	0	0
FS100	10/7/2008	Stockpile	0	0
FS101	10/8/2008	Stockpile	0	0
FS102	10/8/2008	Stockpile	0	0
FS103	10/8/2008	Stockpile	0	0
FS104	10/8/2008	Stockpile	0	0
FS105	10/8/2008	Stockpile	0	0
FS106	10/8/2008	Stockpile	0	0
FS107	10/8/2008	Stockpile	0	0
FS108	10/8/2008	Stockpile	0	0
FS109	10/8/2008	Stockpile	0	0
FS110	10/8/2008	Stockpile	0	0
FS111	10/8/2008	Stockpile	0	0
FS112	10/8/2008	Stockpile	0	0

FID: Flame-ionization detector

PID: Photo-ionization detector equipped with a 10.2 ev bulb

All soil samples were obtained by IWM Consulting personnel



**Table 2**  
**Soil Analytical Results - Soil Excavation Project**  
**26-Acre Vacant Lot**  
**2600 Duncan Road**  
**Lafayette, Indiana**

Soil Sample Identification	Date	Depth (feet BLS)	FID (ppmv)	PID (ppmv)	TPH-GRO (mg/kg)	TPH-ERO (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
SS-1	9/24/2008	0.2	0	0	<1.0	23.7	7.7	70.1	<2.2	11.3	23.8	<0.38	<2.2	<2.2
SS-2	9/24/2008	0.2	0	0	<0.97	12.6	6.1	54.2	<2.0	9.7	16.3	<0.35	<2.0	<2.0
SS-3	9/24/2008	0.2	0	0	<1.0	76.5	6.5	52.2	<2.2	9.8	12.1	<0.36	<2.2	<2.2
SS-4	9/24/2008	0.2	0	0	<1.1	21.8	8.2	60.9	<2.0	14.0	20.7	<0.36	<2.0	<2.0
SS-5	9/24/2008	0.2	0	0	<1.1	19.9	8.7	55.5	<2.2	11.9	62.9	<0.36	<2.2	<2.2
Base 1	9/25/2008	0.5 <sup>1</sup>	0	0	<1.3	<11.1	9.1	85.8	<2.1	14.4	14.1	<0.36	<2.1	<2.1
Base 2	9/26/2008	0.5 <sup>1</sup>	0	0	<0.98	<10.2	4.3	17.1	<1.9	5.9	3.1	<0.33	<1.9	<1.9
Base 3	9/29/2008	0.5 <sup>1</sup>	0	0	<0.94	<10.3	4.9	14.1	<2.0	6.5	3.9	<0.36	<2.0	<2.0
Base 4	9/29/2008	0.5 <sup>1</sup>	0	0	<1.1	<10.4	4.9	25.4	<1.9	6.1	20.5	<0.33	<1.9	<1.9
Base 5	9/30/2008	0.5 <sup>1</sup>	0	4.2	<1.0	<10.3	4.4	13.1	<1.9	8.5	5.5	<0.34	<1.9	<1.9
Stockpile 1	9/25/2008	NA	0	0	<1.0	68.9	7.7	50.0	<2.0	31.2	59.0	<0.35	<2.0	<2.0
Stockpile 2	9/26/2008	NA	0	0	<1.2	41.5	13.7	86.9	<2.1	35.6	171	5.9	<2.1	<2.1
Stockpile 3	9/30/2008	NA	4	45.9	<1.2	232	7.5	83.3	<2.1	19.6	92.4	<0.37	<2.1	<2.1
Stockpile 4	10/3/2008	NA	0	0	<1.0	31.8	7.9	69.6	<2.0	12.9	44.5	<0.36	<2.0	<2.0
Stockpile 5	10/8/2008	NA	0	0	<1.1	15.1	7.5	51.5	<1.9	11.1	18.6	<0.36	<1.9	<1.9
Sidewall 1	10/2/2008	8	0	0	<1.2	<10.2	3.8	12.0	<2.0	8.3	4.3	<0.34	<2.0	<2.0
Sidewall 2	10/2/2008	2	0	0	<0.96	<11.3	8.8	99.5	<2.2	16.6	13.7	<0.39	<2.2	<2.2
Sidewall 3	10/2/2008	8	0	0	<0.97	<10.2	4.5	11.7	<2.0	4.5	3.4	<0.35	<2.0	<2.0
Sidewall 4	10/3/2008	2	0	0	<1.2	12.2	5.9	75.2	<2.1	9.8	13.9	<0.35	<2.1	<2.1
<b>Duplicate</b>					<1.1	11.2	6.2	74.4	<2.0	10.6	12.0	<0.35	<2.0	<2.0
Sidewall 5	10/3/2008	8	0	0	<1.0	<10.5	9.3	33.8	<1.9	16.0	36.3	<0.35	<1.9	<1.9
Sidewall 6	10/3/2008	2	0	0	<1.1	16.8	5.8	86.0	<2.1	10.6	14.3	<0.36	<2.1	<2.1
Sidewall 7	10/6/2008	2	0	0	<0.99	32.4	17.0	53.8	<2.1	17.4	17.1	<0.37	<2.1	<2.1
Sidewall 8	10/6/2008	6	0	0	<0.92	26.4	6.6	58.9	<2.1	13.3	22.9	<0.34	<2.1	<2.1
Sidewall 9	10/6/2008	7	0	0	<1.1	<10.3	5.0	16.8	<2.0	8.7	4.9	<0.34	<2.0	<2.0
Sidewall 10	10/6/2008	2	0	0	<1.4	<10.9	7.1	80.6	<2.2	12.7	12.0	<0.36	<2.2	<2.2
Sidewall 11	10/6/2008	6	0	0	<1.0	25.9	6.7	44.3	<1.9	9.8	16.8	<0.34	<1.9	<1.9
Background NE	10/20/2008	0.33	NA	NA	NA	NA	8.4	NA	NA	NA	NA	NA	NA	NA
Background NW	10/20/2008	0.33	NA	NA	NA	NA	2.8	NA	NA	NA	NA	NA	NA	NA
Background SW	10/20/2008	0.33	NA	NA	NA	NA	8.6	NA	NA	NA	NA	NA	NA	NA
<b>RISC Residential Default Closure Levels (mg/kg)</b>					25	80	3,900	1,600	7,500	38,000	81,000	2,100	5,200	31,000
<b>RISC Residential - Default Soil Direct Contact Levels (mg/kg)</b>					NA	NA	3,900	63,000	12,000	430,000	400,000	100,000	1,700	1,700
<b>RISC Industrial Default Closure Levels (mg/kg)</b>					330	1,000	5,800	10,000	77,000	120,000	230,000	32,000	53,000	87,000
<b>RISC Industrial - Default Soil Direct Contact Levels (mg/kg)</b>					NA	NA	20,000	230,000	990,000	650,000	1,300	470,000	7,800	7,800

Notes:

All soil samples collected by IWM Consulting personnel and analyzed at Pace Analytical located in Indianapolis, Indiana

<sup>1</sup> = Sample depth corresponds to 0.5 feet below the maximum depth of the excavation, which ranged between 15 and 18 feet BLS

TPH-ERO: Total petroleum hydrocarbons - Extended range organics

TPH-GRO: Total petroleum hydrocarbons - Gasoline range organics

TPH-ERO and GRO were analyzed using SW-846 Method 8015M

Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, & Silver were analyzed using SW-846 Method 6010

Mercury were analyzed using SW-846 Method 6010

Bold numbers indicate concentrations exceeding RISC Residential Default Closure Levels

Bold numbers and shaded cells indicate concentrations equal to or exceeding RISC Industrial Default Closure Levels

PID: Photo-ionization Detector

FID: Flame Ionization Detector

ppmv: Parts per million vapor

NA - Not Applicable

All soil samples were analyzed on a dry weight basis

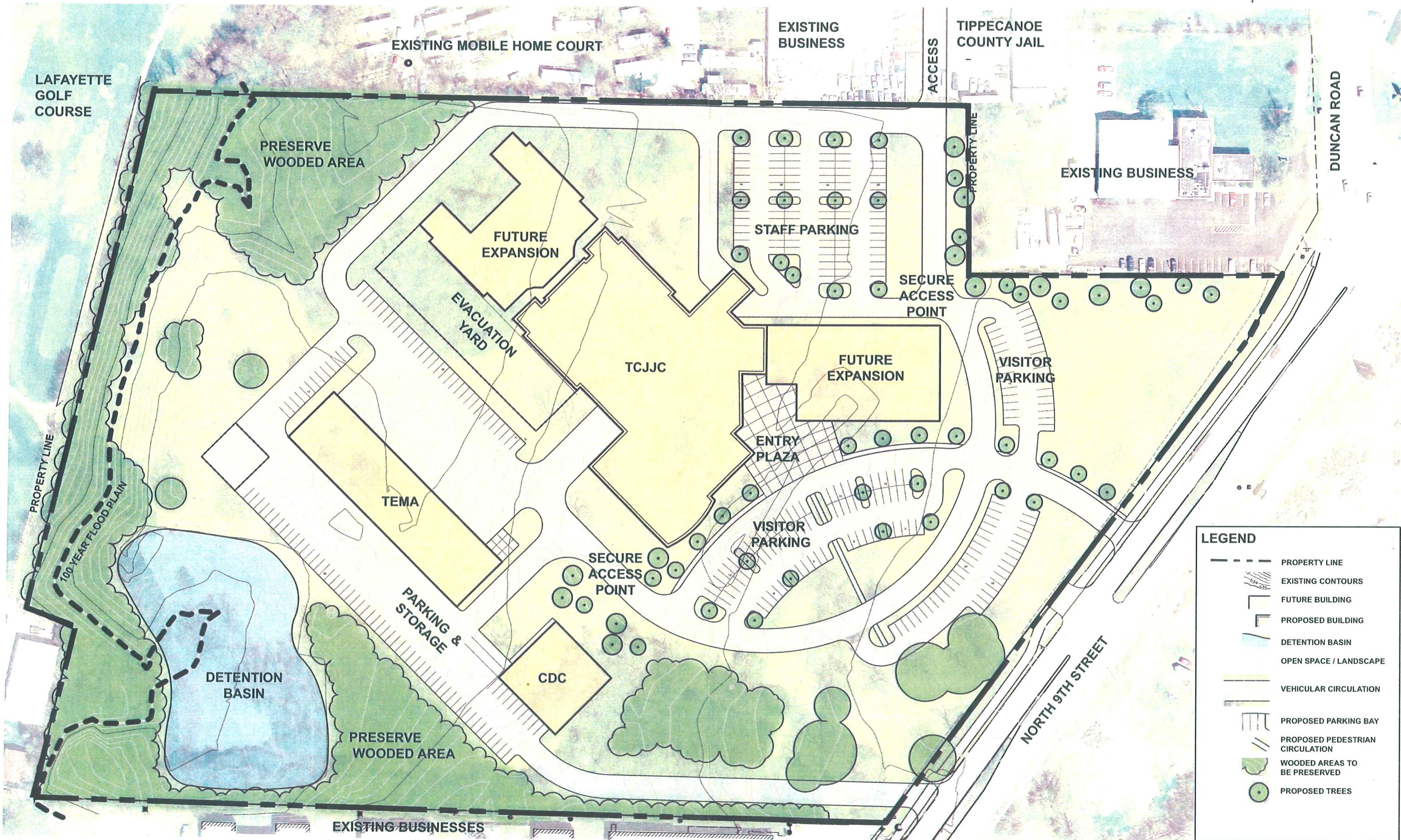
BLS: Below land surface



## **Appendices**

**Appendix A**  
**Proposed Master Plan – Juvenile Justice Center**





Tippecanoe County Juvenile Justice Center - Master Plan Option 2  
Lafayette, Indiana

SCALE 1"=50'

**CDLZ**

**Appendix B**  
**Photographic Documentation**





1. The excavation area in progress facing south.



2. The excavation area in progress facing south.



3. An example of removed materials, including a water heater, barbed wire, and an empty 55-gallon drum.



4. An example of removed material after sorting, including tires, metal implements, and piping.



5. An example of removed material after sorting, including water heaters and a tire.



6. An example of removed material after sorting, including miscellaneous plastic, piping and wiring.



7. The excavation area in progress facing north.



8. The power screener used to sort trash from soil.



9. An example of removed materials after sorting.



10. An example of stockpiled soil after sorting.



11. The excavation area in progress facing northeast.



12. An example of removed materials after sorting.



13. The excavation area in progress facing south.



14. An example of discharged, stockpiled soil after passing through the power screener.



15. Looking north across the southern extent of the excavation.



16. The excavation area in progress facing south.



17. An example of stockpiled soil after sorting.



18. An example of stockpiled soil after sorting.

**Appendix C**  
**Laboratory Analytical Reports**



September 30, 2008

Mr. Brad Gentry  
IWM Consulting  
7428 Rockville Road  
Indianapolis, IN 46214

RE: Project: In. Lafayette 2600 Duncan Rd.  
Pace Project No.: 5019198

Dear Mr. Gentry:

Enclosed are the analytical results for sample(s) received by the laboratory on September 24, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt

kenneth.hunt@pacelabs.com  
Project Manager

Illinois/NELAC Certification Number: 100418  
Indiana Certification Number: C-49-06  
Kansas Certification Number: E-10247  
Kentucky Certification Number: 0042  
Ohio VAP: CL0065  
Pennsylvania: 68-00791  
West Virginia Certification Number: 330

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5019198001	SS1	Solid	09/24/08 15:00	09/24/08 16:48
5019198002	SS2	Solid	09/24/08 15:10	09/24/08 16:48
5019198003	SS3	Solid	09/24/08 15:20	09/24/08 16:48
5019198004	SS4	Solid	09/24/08 15:30	09/24/08 16:48
5019198005	SS5	Solid	09/24/08 15:40	09/24/08 16:48

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5019198001	SS1	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CVR	2
5019198002	SS2	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CVR	2
5019198003	SS3	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CVR	2
5019198004	SS4	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CVR	2
5019198005	SS5	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CVR	2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

**Sample: SS1** Lab ID: 5019198001 Collected: 09/24/08 15:00 Received: 09/24/08 16:48 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>23.7</b> mg/kg		10.9	1	09/25/08 06:15	09/27/08 13:09		
n-Pentacosane (S)	81 %		45-170	1	09/25/08 06:15	09/27/08 13:09	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.0	1		09/27/08 14:41		
4-Bromofluorobenzene (S)	140 %		40-159	1		09/27/08 14:41	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>7.7</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:29	7440-38-2	
Barium	<b>70.1</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:29	7440-39-3	
Cadmium	ND mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:29	7440-43-9	
Chromium	<b>11.3</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:29	7440-47-3	
Lead	<b>23.8</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:29	7439-92-1	
Selenium	ND mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:29	7782-49-2	
Silver	ND mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:29	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.38	1	09/25/08 00:00	09/26/08 15:58	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>8.1</b> %		0.10	1		09/25/08 16:42		

Date: 09/30/2008 02:33 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

**Sample: SS2**      Lab ID: **5019198002**      Collected: 09/24/08 15:10      Received: 09/24/08 16:48      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>12.6</b> mg/kg		10.8	1	09/25/08 06:15	09/27/08 13:27		
n-Pentacosane (S)	61 %		45-170	1	09/25/08 06:15	09/27/08 13:27	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		0.97	1		09/27/08 15:25		
4-Bromofluorobenzene (S)	128 %		40-159	1		09/27/08 15:25	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>6.1</b> mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:35	7440-38-2	
Barium	<b>54.2</b> mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:35	7440-39-3	
Cadmium	ND mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:35	7440-43-9	
Chromium	<b>9.7</b> mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:35	7440-47-3	
Lead	<b>16.3</b> mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:35	7439-92-1	
Selenium	ND mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:35	7782-49-2	
Silver	ND mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:35	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.35	1	09/25/08 00:00	09/26/08 16:02	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>7.5</b> %		0.10	1		09/25/08 16:42		

Date: 09/30/2008 02:33 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

**Sample: SS3** Lab ID: 5019198003 Collected: 09/24/08 15:20 Received: 09/24/08 16:48 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>76.5</b> mg/kg		11.1	1	09/25/08 06:15	09/27/08 11:55		
n-Pentacosane (S)	156 %		45-170	1	09/25/08 06:15	09/27/08 11:55	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.0	1		09/28/08 15:42		
4-Bromofluorobenzene (S)	139 %		40-159	1		09/28/08 15:42	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>6.5</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:52	7440-38-2	
Barium	<b>52.2</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:52	7440-39-3	
Cadmium	ND mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:52	7440-43-9	
Chromium	<b>9.8</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:52	7440-47-3	
Lead	<b>12.1</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:52	7439-92-1	
Selenium	ND mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:52	7782-49-2	
Silver	ND mg/kg		2.2	1	09/25/08 00:00	09/25/08 18:52	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.36	1	09/25/08 00:00	09/26/08 16:04	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>9.8</b> %		0.10	1		09/25/08 16:43		

Date: 09/30/2008 02:33 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

**Sample: SS4** Lab ID: 5019198004 Collected: 09/24/08 15:30 Received: 09/24/08 16:48 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>21.8</b> mg/kg		11.1	1	09/25/08 06:15	09/27/08 13:46		
n-Pentacosane (S)	67 %		45-170	1	09/25/08 06:15	09/27/08 13:46	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.1	1		09/27/08 15:47		
4-Bromofluorobenzene (S)	144 %		40-159	1		09/27/08 15:47	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>8.2</b> mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:58	7440-38-2	
Barium	<b>60.9</b> mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:58	7440-39-3	
Cadmium	ND mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:58	7440-43-9	
Chromium	<b>14.0</b> mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:58	7440-47-3	
Lead	<b>20.7</b> mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:58	7439-92-1	
Selenium	ND mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:58	7782-49-2	
Silver	ND mg/kg		2.0	1	09/25/08 00:00	09/25/08 18:58	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.36	1	09/25/08 00:00	09/26/08 16:05	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>10.2</b> %		0.10	1		09/25/08 16:43		

Date: 09/30/2008 02:33 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

**Sample: SS5** Lab ID: 5019198005 Collected: 09/24/08 15:40 Received: 09/24/08 16:48 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>19.9</b> mg/kg		11.1	1	09/25/08 06:15	09/27/08 12:13		
n-Pentacosane (S)	75 %		45-170	1	09/25/08 06:15	09/27/08 12:13	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.1	1		09/27/08 16:09		
4-Bromofluorobenzene (S)	148 %		40-159	1		09/27/08 16:09	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>8.7</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 19:03	7440-38-2	
Barium	<b>55.5</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 19:03	7440-39-3	
Cadmium	ND mg/kg		2.2	1	09/25/08 00:00	09/25/08 19:03	7440-43-9	
Chromium	<b>11.9</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 19:03	7440-47-3	
Lead	<b>62.9</b> mg/kg		2.2	1	09/25/08 00:00	09/25/08 19:03	7439-92-1	
Selenium	ND mg/kg		2.2	1	09/25/08 00:00	09/25/08 19:03	7782-49-2	
Silver	ND mg/kg		2.2	1	09/25/08 00:00	09/25/08 19:03	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.36	1	09/25/08 00:00	09/26/08 16:07	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>9.6</b> %		0.10	1		09/25/08 16:43		

Date: 09/30/2008 02:33 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

QC Batch:	MPRP/3489	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples: 5019198001, 5019198002, 5019198003, 5019198004, 5019198005			

METHOD BLANK: 214620 Matrix: Solid

Associated Lab Samples: 5019198001, 5019198002, 5019198003, 5019198004, 5019198005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	09/25/08 18:18	
Barium	mg/kg	ND	2.0	09/25/08 18:18	
Cadmium	mg/kg	ND	2.0	09/25/08 18:18	
Chromium	mg/kg	ND	2.0	09/25/08 18:18	
Lead	mg/kg	ND	2.0	09/25/08 18:18	
Selenium	mg/kg	ND	2.0	09/25/08 18:18	
Silver	mg/kg	ND	2.0	09/25/08 18:18	

LABORATORY CONTROL SAMPLE: 214621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	52.7	105	85-118	
Barium	mg/kg	50	49.6	99	84-118	
Cadmium	mg/kg	50	50.2	100	83-115	
Chromium	mg/kg	50	50.1	100	82-117	
Lead	mg/kg	50	51.2	102	83-116	
Selenium	mg/kg	50	47.6	95	82-116	
Silver	mg/kg	25	21.9	88	77-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 214622 214623

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		
		5019192012	Spike Conc.	Spike Conc.	MS Result				RPD	RPD	Qual
Arsenic	mg/kg	5.5	61.8	61.2	52.4	56.5	76	83	70-127	7	20
Barium	mg/kg	126	61.8	61.2	229	174	167	79	60-140	27	20 1d,2d
Cadmium	mg/kg	ND	61.8	61.2	44.2	48.1	72	79	65-120	8	20
Chromium	mg/kg	13.8	61.8	61.2	60.4	67.0	75	87	60-130	10	20
Lead	mg/kg	10	61.8	61.2	55.3	59.6	73	81	60-140	7	20
Selenium	mg/kg	ND	61.8	61.2	42.6	46.1	69	75	60-130	8	20
Silver	mg/kg	ND	30.9	30.7	20.0	21.9	65	71	70-130	9	20 M3

Date: 09/30/2008 02:33 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

QC Batch:	MERP/1812	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples: 5019198001, 5019198002, 5019198003, 5019198004, 5019198005			

METHOD BLANK: 214633 Matrix: Solid

Associated Lab Samples: 5019198001, 5019198002, 5019198003, 5019198004, 5019198005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.33	09/26/08 15:29	

LABORATORY CONTROL SAMPLE: 214634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.50	100	85-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 214635 214636

Parameter	Units	5019192012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.66	.61	0.70	0.65	103	101	50-150	8	20	

Date: 09/30/2008 02:33 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

QC Batch:	PMST/2948	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples: 5019198001, 5019198002, 5019198003, 5019198004, 5019198005			

SAMPLE DUPLICATE: 215120

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.8	16.4	4	5	

SAMPLE DUPLICATE: 215121

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.6	9.1	6	5	R2

## QUALITY CONTROL DATA

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

QC Batch:	OEXT/9566	Analysis Method:	EPA 8015 Mod Ext
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015 Modified
Associated Lab Samples:	5019198001, 5019198002, 5019198003, 5019198004, 5019198005		

METHOD BLANK: 215254 Matrix: Solid

Associated Lab Samples: 5019198001, 5019198002, 5019198003, 5019198004, 5019198005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-ERO	mg/kg	ND	10.0	09/27/08 07:36	
n-Pentacosane (S)	%	82	45-170	09/27/08 07:36	

LABORATORY CONTROL SAMPLE: 215255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-ERO	mg/kg	83.3	57.8	69	41-139	
n-Pentacosane (S)	%			77	45-170	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 215256 215257

Parameter	Units	5019216001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
TPH-ERO	mg/kg	26.1	108	108	83.6	355	53	304	40-146	124	20 M0,R1
n-Pentacosane (S)	%						77	79	45-170		20

Date: 09/30/2008 02:33 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

QC Batch: GCV/5518 Analysis Method: EPA 8015 Mod Pur

QC Batch Method: EPA 8015 Mod Pur Analysis Description: 8015 Solid GCV

Associated Lab Samples: 5019198001, 5019198002, 5019198004, 5019198005

METHOD BLANK: 216455 Matrix: Solid

Associated Lab Samples: 5019198001, 5019198002, 5019198004, 5019198005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	09/27/08 11:42	
4-Bromofluorobenzene (S)	%	131	40-159	09/27/08 11:42	

LABORATORY CONTROL SAMPLE: 216456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	8.9	89	79-128	
4-Bromofluorobenzene (S)	%			143	40-159	

Date: 09/30/2008 02:33 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: In. Lafayette 2600 Duncan Rd.

Pace Project No.: 5019198

QC Batch:	GCV/5521	Analysis Method:	EPA 8015 Mod Pur
QC Batch Method:	EPA 8015 Mod Pur	Analysis Description:	8015 Solid GCV
Associated Lab Samples:	5019198003		

METHOD BLANK: 216466 Matrix: Solid

Associated Lab Samples: 5019198003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	09/28/08 12:02	
4-Bromofluorobenzene (S)	%	116	40-159	09/28/08 12:02	

LABORATORY CONTROL SAMPLE: 216467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	9.0	90	79-128	
4-Bromofluorobenzene (S)	%			145	40-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 216468 216469

Parameter	Units	5019101001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
Gasoline Range Organics	mg/kg	ND	12.3	12.3	5.1	5.7	36	41	40-135	12	20 M0
4-Bromofluorobenzene (S)	%						123	135	40-159		20

Date: 09/30/2008 02:33 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: In. Lafayette 2600 Duncan Rd.  
Pace Project No.: 5019198

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### ANALYTE QUALIFIERS

- 1d Matrix spike recovery is outside of control limits due to sample non-homogeneity.
- 2d RPD is outside of control limits due to sample non-homogeneity.
- M0 Matrix spike recovery was outside laboratory control limits.
- M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.
- R1 RPD value was outside control limits.
- R2 RPD value was outside control limits due to matrix interference

Pace Analytical  
www.paceanalytical.com

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Rush Ticket 1911

Section B

Required Client Information:

Company: **JMM Consulting**  
Address: 7428 Rockville Rd.  
**Indianapolis, IN**  
Email To: **B9entry@univissoft.com**  
Phone # **(317) 435-8811 ext. 211**  
Request Due Date/TA: **11/21/08**  
Project Number: **JN.Laf200 Duncan Road**

Section C

Invoice Information:

Report To: **Brad Service**

Copy To: **Danovan Witzenski**

REGULATORY AGENCY

NPDES     GROUND WATER     DRINKING WATER

UST     RCRA     OTHER

Residual Chlorine (Y/N) \_\_\_\_\_

Site Location STATE \_\_\_\_\_

Pace Project Manager: \_\_\_\_\_  
Pace Profile #: \_\_\_\_\_

Requested Analysis Filtered (Y/N)

Section D	Required Client Information	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	COLLECTED				# OF CONTAINERS	SAMPLE TEMP AT COLLECTION	Preservatives	Analytical Test (Y/N)	Pace Project No./Lab I.D.
			MATRIX CODES	MATRIX / CODE	COMPOSITE START	COMPOSITE END/GRAB					
ITEM #	MATRIX CODES	MATRIX / CODE	Drinking Water	DW							-001
1	SS 1	SS 1	Waste Water	WW							-002
2	SS 2	SS 2	Product	P							-003
3	SS 3	SS 3	Sol/Solid	SL							-004
4	SS 4	SS 4	Oil	OL							-005
5	SS 5	SS 5	Wipe	WP							
6			Air	AR							
7			Tissue	TS							
8			Other	OT							
9											
10											
11											
12											

ADDITIONAL COMMENTS

RELINQUISHED BY AFFILIATION

DATE: **9/2/08**

TIME: **16:18**

ACCEPTED BY / AFFILIATION

DATE: **9/2/08**

TIME: **16:53**

SAMPLE CONDITIONS

DATE: **9/2/08**

TIME: **17:00**

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Danovan Witzenski**

SIGNATURE of SAMPLER: **[Signature]**

DATE Signed (MM/DD/YY): **09/24/08**

Received on **9/2/08** at **16:18** hrs **RCRA**

Custodial Condition (Y/N): **Good**

Sealed Condition (Y/N): **Good**

Samples intact (Y/N): **Good**

Temp in °C: **18.0**

Temp in °F: **64.4**

F-ALL-Q-022rev.07, 15-May-2007

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



## Sample Condition Upon Receipt

Client Name: IWMProject # SD19198

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other  
 Tracking #: \_\_\_\_\_

Project #	SD19198
Expt Date	09/24/08
Proj Name	SD19198

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used

123456Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature

5.3°C

Biological Tissue Is Frozen: Yes No

Comments: Date and initials of person examining contents: 9/24/08

Temp should be above freezing to 6°C

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>RPT, terra cones</u>
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix	<u>SOL</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Pace Trip Blank Lot # (if purchased):		

## Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review:

Kenneth BentDate: 9/24/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)

October 10, 2008

Mr. Brad Gentry  
IWM Consulting  
7428 Rockville Road  
Indianapolis, IN 46214

RE: Project: Duncan Rd  
Pace Project No.: 5019276

Dear Mr. Gentry:

Enclosed are the analytical results for sample(s) received by the laboratory on September 25, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt

kenneth.hunt@pacelabs.com  
Project Manager

Illinois/NELAC Certification Number: 100418  
Indiana Certification Number: C-49-06  
Kansas Certification Number: E-10247  
Kentucky Certification Number: 0042  
Ohio VAP: CL0065  
Pennsylvania: 68-00791  
West Virginia Certification Number: 330

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Duncan Rd  
Pace Project No.: 5019276

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5019276001	BASE 1	Solid	09/25/08 13:40	09/25/08 16:50
5019276002	STOCKPILE 1	Solid	09/25/08 15:00	09/25/08 16:50

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Duncan Rd  
Pace Project No.: 5019276

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5019276001	<b>BASE 1</b>	ASTM D2974-87	ILP	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CVR	2
5019276002	<b>STOCKPILE 1</b>	ASTM D2974-87	ILP	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CVR	2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Duncan Rd  
Pace Project No.: 5019276

**Sample: BASE 1** Lab ID: **5019276001** Collected: 09/25/08 13:40 Received: 09/25/08 16:50 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	ND mg/kg		11.1	1	09/30/08 00:00	10/01/08 22:33		
n-Pentacosane (S)	59 %		45-170	1	09/30/08 00:00	10/01/08 22:33	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.3	1		10/08/08 02:56		
4-Bromofluorobenzene (S)	133 %		40-159	1		10/08/08 02:56	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	9.1 mg/kg		2.1	1	09/29/08 00:00	10/01/08 17:22	7440-38-2	
Barium	85.8 mg/kg		2.1	1	09/29/08 00:00	10/01/08 17:22	7440-39-3	
Cadmium	ND mg/kg		2.1	1	09/29/08 00:00	10/01/08 17:22	7440-43-9	
Chromium	14.4 mg/kg		2.1	1	09/29/08 00:00	10/01/08 17:22	7440-47-3	
Lead	14.1 mg/kg		2.1	1	09/29/08 00:00	10/01/08 17:22	7439-92-1	
Selenium	ND mg/kg		2.1	1	09/29/08 00:00	10/01/08 17:22	7782-49-2	
Silver	ND mg/kg		2.1	1	09/29/08 00:00	10/01/08 17:22	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.36	1	09/30/08 00:00	10/02/08 12:57	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	9.8 %		0.10	1		10/02/08 00:00		

Date: 10/10/2008 02:49 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Duncan Rd  
Pace Project No.: 5019276

Sample: STOCKPILE 1 Lab ID: 5019276002 Collected: 09/25/08 15:00 Received: 09/25/08 16:50 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>68.9</b> mg/kg		53.5	5	09/30/08 00:00	10/01/08 23:30		
n-Pentacosane (S)	96 %		45-170	5	09/30/08 00:00	10/01/08 23:30	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.0	1		10/08/08 03:19		
4-Bromofluorobenzene (S)	131 %		40-159	1		10/08/08 03:19	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>7.7</b> mg/kg		2.0	1	09/29/08 00:00	10/01/08 17:28	7440-38-2	
Barium	<b>50.0</b> mg/kg		2.0	1	09/29/08 00:00	10/01/08 17:28	7440-39-3	
Cadmium	ND mg/kg		2.0	1	09/29/08 00:00	10/01/08 17:28	7440-43-9	
Chromium	<b>31.2</b> mg/kg		2.0	1	09/29/08 00:00	10/01/08 17:28	7440-47-3	
Lead	<b>59.0</b> mg/kg		2.0	1	09/29/08 00:00	10/01/08 17:28	7439-92-1	
Selenium	ND mg/kg		2.0	1	09/29/08 00:00	10/01/08 17:28	7782-49-2	
Silver	ND mg/kg		2.0	1	09/29/08 00:00	10/01/08 17:28	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.35	1	09/30/08 00:00	10/02/08 12:58	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>6.6</b> %		0.10	1		10/02/08 00:00		

Date: 10/10/2008 02:49 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Duncan Rd  
Pace Project No.: 5019276

QC Batch:	MPRP/3512	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples: 5019276001, 5019276002			

METHOD BLANK: 216342 Matrix: Solid

Associated Lab Samples: 5019276001, 5019276002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	10/01/08 17:11	
Barium	mg/kg	ND	2.0	10/01/08 17:11	
Cadmium	mg/kg	ND	2.0	10/01/08 17:11	
Chromium	mg/kg	ND	2.0	10/01/08 17:11	
Lead	mg/kg	ND	2.0	10/01/08 17:11	
Selenium	mg/kg	ND	2.0	10/01/08 17:11	
Silver	mg/kg	ND	2.0	10/01/08 17:11	

LABORATORY CONTROL SAMPLE: 216343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	51.1	102	85-118	
Barium	mg/kg	50	50.7	101	84-118	
Cadmium	mg/kg	50	51.1	102	83-115	
Chromium	mg/kg	50	49.8	100	82-117	
Lead	mg/kg	50	50.7	101	83-116	
Selenium	mg/kg	50	49.9	100	82-116	
Silver	mg/kg	25	23.7	95	77-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 216344 216345

Parameter	Units	5019219004		MSD		MS Result	% Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
		Spike Result	Conc.	Spike Result	Conc.						
Arsenic	mg/kg	8.2	60.4	59.3	57.4	59.3	81	86	70-127	3	20
Barium	mg/kg	102	60.4	59.3	147	159	74	96	60-140	8	20
Cadmium	mg/kg	ND	60.4	59.3	46.3	46.0	77	77	65-120	1	20
Chromium	mg/kg	16.6	60.4	59.3	64.2	64.3	79	80	60-130	0	20
Lead	mg/kg	12.9	60.4	59.3	61.2	60.7	80	81	60-140	1	20
Selenium	mg/kg	ND	60.4	59.3	46.0	45.6	76	77	60-130	1	20
Silver	mg/kg	ND	30.3	29.7	22.5	22.3	75	75	70-130	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 216346 216347

Parameter	Units	5019219012		MSD		MS Result	% Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
		Spike Result	Conc.	Spike Result	Conc.						
Arsenic	mg/kg	3.6	58.3	56.2	60.8	61.2	98	103	70-127	1	20
Barium	mg/kg	34.0	58.3	56.2	92.5	93.7	100	106	60-140	1	20
Cadmium	mg/kg	ND	58.3	56.2	48.5	48.1	83	85	65-120	1	20

Date: 10/10/2008 02:49 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Duncan Rd  
Pace Project No.: 5019276

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			216346												
Parameter	Units	Result	MS		MSD		MS	MSD	% Rec	MSD	% Rec	% Rec	Max		
			5019219012	Spike Conc.	Spike Conc.	Result							Limits	RPD	RPD
Chromium	mg/kg	5.2	58.3	56.2	54.6	55.6	85	90	60-130	2	20				
Lead	mg/kg	58.6	58.3	56.2	97.1	98.5	66	71	60-140	1	20				
Selenium	mg/kg	ND	58.3	56.2	54.6	53.7	93	95	60-130	2	20				
Silver	mg/kg	ND	29.2	28.1	26.9	26.4	92	94	70-130	2	20				

Date: 10/10/2008 02:49 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Duncan Rd  
Pace Project No.: 5019276

QC Batch:	OEXT/9633	Analysis Method:	EPA 8015 Mod Ext
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015 Modified
Associated Lab Samples:	5019276001, 5019276002		

METHOD BLANK: 216813 Matrix: Solid

Associated Lab Samples: 5019276001, 5019276002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-ERO	mg/kg	ND	10.0	09/30/08 15:24	
n-Pentacosane (S)	%	65	45-170	09/30/08 15:24	

LABORATORY CONTROL SAMPLE: 216814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-ERO	mg/kg	83.3	48.6	58	41-139	
n-Pentacosane (S)	%			54	45-170	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 216815 216816

Parameter	Units	5019240008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
TPH-ERO	mg/kg	13.5	98.9	98.9	51.0	63.5	38	51	40-146	22	20
n-Pentacosane (S)	%						41	45	45-170	20	M0,R1

## QUALITY CONTROL DATA

Project: Duncan Rd  
Pace Project No.: 5019276

QC Batch:	MERP/1827	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples: 5019276001, 5019276002			

METHOD BLANK: 217317 Matrix: Solid

Associated Lab Samples: 5019276001, 5019276002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.33	10/02/08 12:29	

LABORATORY CONTROL SAMPLE: 217318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.49	97	85-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 217319 217320

Parameter	Units	5019219012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.59	.64	0.61	0.65	98	97	50-150	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 217326 217327

Parameter	Units	5019171001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.54	.54	0.56	0.56	102	101	50-150	0	20	

## QUALITY CONTROL DATA

Project: Duncan Rd

Pace Project No.: 5019276

QC Batch: PMST/2964

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 5019276001, 5019276002

SAMPLE DUPLICATE: 218458

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.6	16.7	5	5	

SAMPLE DUPLICATE: 218459

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.7	17.8	5	5	

## QUALITY CONTROL DATA

Project: Duncan Rd  
Pace Project No.: 5019276

QC Batch:	GCV/5626	Analysis Method:	EPA 8015 Mod Pur
QC Batch Method:	EPA 8015 Mod Pur	Analysis Description:	8015 Solid GCV
Associated Lab Samples:	5019276001, 5019276002		

METHOD BLANK: 220277 Matrix: Solid

Associated Lab Samples: 5019276001, 5019276002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	10/07/08 21:43	
4-Bromofluorobenzene (S)	%	107	40-159	10/07/08 21:43	

LABORATORY CONTROL SAMPLE: 220278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	9.6	96	79-128	
4-Bromofluorobenzene (S)	%			143	40-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 220279 220280

Parameter	Units	5019358002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
Gasoline Range Organics	mg/kg	ND	12.1	12.1	5.9	8.3	44	64	40-135	35	20
4-Bromofluorobenzene (S)	%						121	134	40-159		20 R1

## QUALIFIERS

Project: Duncan Rd  
Pace Project No.: 5019276

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### ANALYTE QUALIFIERS

M0      Matrix spike recovery was outside laboratory control limits.

R1      RPD value was outside control limits.

S0      Surrogate recovery outside laboratory control limits.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <u>JULM Consulting</u>	Report To: <u>Donal Duncan</u>	Attention: <u>Project Manager</u>	Address: <u>1128 Rockville Rd</u>	Company Name: <u>Donovan W. Duncan Inc.</u>	REGULATORY AGENCY
Address: <u>7428 Rockville Rd</u>	Copy To: <u>Donovan W. Duncan Inc.</u>		Purchase Order No.: <u>676747-11</u>	Pace Quote Reference: <u>676747-11</u>	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
Email to: <u>b.duncan@jwmc.com</u>	Project Name: <u>Duncan Rd</u>		Manager: <u>Donovan W. Duncan Inc.</u>	Project Number: <u>247,260 Duncan Rd</u>	Site Location STATE: <u>STATE:</u>
Phone: <u>(319) 347-1111</u>	Fax: <u>(319) 347-1111</u>				Residual Chlorine (Y/N)
Requested Due Date/TAT: <u>5 business days</u>					Requested Analysis Filtered (Y/N)
				<u>5019276</u>	
Section D Required Client Information:		SAMPLE ID (A-Z, 0-9, -, ) Sample IDs MUST BE UNIQUE		# OF CONTAINERS	
Matrix Codes MATRIX / CODE		COLLECTED		SAMPLE TEMP AT COLLECTION	
Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other		COMPOSITE START	COMPOSITE END/GRAB	Preservatives	
MATRIX CODE (see valid codes to left)				Analytical Test Y/N	
HCl HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> NaOH Na <sub>2</sub> SO <sub>3</sub> Methanol Other - <u>Water</u>				Pace Project No./ Lab ID. <u>501</u> <u>087</u>	
DATE		TIME	DATE	TIME	
1 <u>Base 1</u>		<u>9/6</u>	<u>9/25</u>	<u>13:40</u>	<u>6</u>
2 <u>Stockpile 1</u>		<u>9/6</u>	<u>9/25</u>	<u>15:00</u>	<u>6</u>
3					<u>1</u>
4					<u>1</u>
5					
6					
7					
8					
9					
10					
11					
12					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME
<u>Not Checked</u>		<u>Duncan W. Duncan Inc.</u>		<u>9/25</u>	<u>16:50</u>
<u>Chain of Custody</u>		<u>12/2007</u>			
ORIGINAL		SAMPLER NAME AND SIGNATURE		ACCEPTED BY / AFFILIATION	
		<u>Donovan W. Duncan Inc.</u>		DATE	TIME
		<u>Donovan W. Duncan Inc.</u>		<u>09/25/08</u>	<u>16:50</u>
PRINT NAME OF SAMPLER:		SIGNATURE OF SAMPLER:		SAMPLE CONDITIONS	
<u>Donovan W. Duncan Inc.</u>		<u>Donovan W. Duncan Inc.</u>		<u>80% water at 50°C</u>	
Samples intact (Y/N)		Samples intact (Y/N)		Samples intact (Y/N)	
Received on <u>9/25/08</u>		Received on <u>9/25/08</u>		Received on <u>9/25/08</u>	
Custody Seal/Coder (Y/N)		Custody Seal/Coder (Y/N)		Custody Seal/Coder (Y/N)	
Temp in °C <u>25</u>		Temp in °C <u>25</u>		Temp in °C <u>25</u>	

## Sample Condition Upon Receipt

Pace Analytical

Client Name: IWMProject # 5019276Courier:  FedEx  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  noPacking Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used

129456  
3.3°cType of Ice:  Wet  Blue  None  Samples on ice, cooling process has begunBiological Tissue is Frozen: Yes  NoDate and Initials of person examining contents: 7/25/03 mt

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>SL</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Just collected.

Project Manager Review:

Ned

Date:

9/06/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

October 11, 2008

Mr. Brad Gentry  
IWM Consulting  
7428 Rockville Road  
Indianapolis, IN 46214

RE: Project: 2600 Duncan Rd  
Pace Project No.: 5019333

Dear Mr. Gentry:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt

kenneth.hunt@pacelabs.com  
Project Manager

Illinois/NELAC Certification Number: 100418  
Indiana Certification Number: C-49-06  
Kansas Certification Number: E-10247  
Kentucky Certification Number: 0042  
Ohio VAP: CL0065  
Pennsylvania: 68-00791  
West Virginia Certification Number: 330

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2600 Duncan Rd  
Pace Project No.: 5019333

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5019333001	Base 2	Solid	09/26/08 10:40	09/26/08 16:35
5019333002	Stockpile 2	Solid	09/26/08 14:30	09/26/08 16:35

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 2600 Duncan Rd  
Pace Project No.: 5019333

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5019333001	<b>Base 2</b>	ASTM D2974-87	ILP	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CVR	2
5019333002	<b>Stockpile 2</b>	ASTM D2974-87	ILP	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CVR	2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd  
Pace Project No.: 5019333

**Sample: Base 2** Lab ID: **5019333001** Collected: 09/26/08 10:40 Received: 09/26/08 16:35 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	ND mg/kg		10.2	1	10/06/08 13:07	10/06/08 18:11		
n-Pentacosane (S)	45 %		45-170	1	10/06/08 13:07	10/06/08 18:11	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		0.98	1		10/08/08 06:40		
4-Bromofluorobenzene (S)	130 %		40-159	1		10/08/08 06:40	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.3 mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:01	7440-38-2	
Barium	17.1 mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:01	7440-39-3	
Cadmium	ND mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:01	7440-43-9	
Chromium	5.9 mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:01	7440-47-3	
Lead	3.1 mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:01	7439-92-1	
Selenium	ND mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:01	7782-49-2	
Silver	ND mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:01	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.33	1	09/30/08 00:00	10/02/08 13:04	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	1.5 %		0.10	1		10/06/08 13:29		

Date: 10/11/2008 01:12 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd  
Pace Project No.: 5019333

**Sample: Stockpile 2** Lab ID: **5019333002** Collected: 09/26/08 14:30 Received: 09/26/08 16:35 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>41.5</b> mg/kg		11.1	1	10/01/08 00:00	10/02/08 15:30		
n-Pentacosane (S)	52 %		45-170	1	10/01/08 00:00	10/02/08 15:30	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.2	1		10/08/08 07:02		
4-Bromofluorobenzene (S)	125 %		40-159	1		10/08/08 07:02	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>13.7</b> mg/kg		2.1	1	10/01/08 00:00	10/02/08 11:07	7440-38-2	
Barium	<b>86.9</b> mg/kg		2.1	1	10/01/08 00:00	10/02/08 11:07	7440-39-3	
Cadmium	ND mg/kg		2.1	1	10/01/08 00:00	10/02/08 11:07	7440-43-9	
Chromium	<b>35.6</b> mg/kg		2.1	1	10/01/08 00:00	10/02/08 11:07	7440-47-3	
Lead	<b>171</b> mg/kg		2.1	1	10/01/08 00:00	10/02/08 11:07	7439-92-1	
Selenium	ND mg/kg		2.1	1	10/01/08 00:00	10/02/08 11:07	7782-49-2	
Silver	ND mg/kg		2.1	1	10/01/08 00:00	10/02/08 11:07	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	<b>5.9</b> mg/kg		1.8	5	10/06/08 00:00	10/08/08 16:17	7439-97-6	1d
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>9.7</b> %		0.10	1		10/06/08 13:29		

Date: 10/11/2008 01:12 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019333

QC Batch:	MERP/1827	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	5019333001		

METHOD BLANK: 217317 Matrix: Solid

Associated Lab Samples: 5019333001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.33	10/02/08 12:29	

LABORATORY CONTROL SAMPLE: 217318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.49	97	85-119	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 217319 217320

Parameter	Units	5019219012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.59	.64	0.61	0.65	98	97	50-150	5	20	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 217326 217327

Parameter	Units	5019171001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.54	.54	0.56	0.56	102	101	50-150	0	20	

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019333

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QC Batch:	OEXT/9652	Analysis Method:	EPA 8015 Mod Ext
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015 Modified

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Associated Lab Samples: 5019333002

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METHOD BLANK: 217396	Matrix: Solid
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Associated Lab Samples: 5019333002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-ERO	mg/kg	ND	10.0	10/02/08 09:40	
n-Pentacosane (S)	%	92	45-170	10/02/08 09:40	

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LABORATORY CONTROL SAMPLE: 217397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-ERO	mg/kg	83.3	50.3	60	41-139	
n-Pentacosane (S)	%			94	45-170	

Date: 10/11/2008 01:12 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019333

QC Batch:	MPRP/3528	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	5019333001, 5019333002		

METHOD BLANK: 217616 Matrix: Solid

Associated Lab Samples: 5019333001, 5019333002

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Arsenic	mg/kg	ND	2.0	10/02/08 08:18	
Barium	mg/kg	ND	2.0	10/02/08 08:18	
Cadmium	mg/kg	ND	2.0	10/02/08 08:18	
Chromium	mg/kg	ND	2.0	10/02/08 08:18	
Lead	mg/kg	ND	2.0	10/02/08 08:18	
Selenium	mg/kg	ND	2.0	10/02/08 08:18	
Silver	mg/kg	ND	2.0	10/02/08 08:18	

LABORATORY CONTROL SAMPLE: 217617

Parameter	Units	Spike	LCS		% Rec	Limits	Qualifiers
		Conc.	Result	% Rec			
Arsenic	mg/kg	50	51.3	103	85-118		
Barium	mg/kg	50	53.7	107	84-118		
Cadmium	mg/kg	50	51.2	102	83-115		
Chromium	mg/kg	50	51.9	104	82-117		
Lead	mg/kg	50	51.7	103	83-116		
Selenium	mg/kg	50	50.6	101	82-116		
Silver	mg/kg	25	23.3	93	77-123		

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 217618 217619

Parameter	Units	MS		MSD		MS	MSD	% Rec	Limits	RPD	RPD	Max
		5019275021	Spike	Spike	MS	MS	MSD	% Rec	% Rec	Qual	RPD	RPD
Arsenic	mg/kg	3.3	55.4	57.6	53.0	57.8	90	95	70-127	9	20	
Barium	mg/kg	78.6	55.4	57.6	150	147	129	118	60-140	2	20	
Cadmium	mg/kg	ND	55.4	57.6	49.2	54.3	89	94	65-120	10	20	
Chromium	mg/kg	12.1	55.4	57.6	64.6	70.9	95	102	60-130	9	20	
Lead	mg/kg	7.4	55.4	57.6	54.6	59.9	85	91	60-140	9	20	
Selenium	mg/kg	ND	55.4	57.6	50.6	55.6	90	96	60-130	9	20	
Silver	mg/kg	ND	27.7	28.9	23.3	25.6	84	89	70-130	9	20	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 217620 217621

Parameter	Units	MS		MSD		MS	MSD	% Rec	Limits	RPD	RPD	Max
		5018136041	Spike	Spike	MS	MS	MSD	% Rec	% Rec	Qual	RPD	RPD
Arsenic	mg/kg	5.9	60.5	60	55.6	55.9	82	83	70-127	1	20	
Barium	mg/kg	116	60.5	60	175	176	97	99	60-140	1	20	
Cadmium	mg/kg	ND	60.5	60	48.0	46.5	79	77	65-120	3	20	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019333

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 217620 217621

Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
			Spike Conc.	Spike Conc.							RPD	RPD
Chromium	mg/kg	21.1	60.5	60	76.8	73.2	92	87	60-130	5	20	
Lead	mg/kg	10.2	60.5	60	59.9	58.3	82	80	60-140	3	20	
Selenium	mg/kg	ND	60.5	60	48.9	47.5	80	79	60-130	3	20	
Silver	mg/kg	ND	30.3	29.9	22.9	22.2	76	74	70-130	3	20	

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019333

QC Batch:	OEXT/9726	Analysis Method:	EPA 8015 Mod Ext
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015 Modified
Associated Lab Samples:	5019333001		

METHOD BLANK: 219349 Matrix: Solid

Associated Lab Samples: 5019333001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-ERO	mg/kg	ND	10.0	10/06/08 16:18	
n-Pentacosane (S)	%	82	45-170	10/06/08 16:18	

LABORATORY CONTROL SAMPLE: 219350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-ERO	mg/kg	83.3	45.1	54	41-139	
n-Pentacosane (S)	%			63	45-170	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219777 219778

Parameter	Units	5019320010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
TPH-ERO	mg/kg	ND	86.3	86.3	36.3	43.0	41	49	40-146	17	20
n-Pentacosane (S)	%						48	54	45-170		20

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019333

QC Batch:	MERP/1835	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	5019333002		

METHOD BLANK: 219367 Matrix: Solid

Associated Lab Samples: 5019333002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.33	10/08/08 14:28	

LABORATORY CONTROL SAMPLE: 219368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.51	102	85-119	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219369 219370

Parameter	Units	5019533001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Mercury	mg/kg	ND	.64	.67	0.65	0.69	96	99	50-150	6	20	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219371 219372

Parameter	Units	5019600002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Mercury	mg/kg	ND	.52	.52	0.67	0.69	127	131	50-150	3	20	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219373 219374

Parameter	Units	5019275010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Mercury	mg/kg	ND	.55	.55	0.59	0.60	104	105	50-150	1	20	

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019333

QC Batch:	PMST/2977	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples: 5019333001, 5019333002			

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SAMPLE DUPLICATE: 219419

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.2	18.4	4	5	

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SAMPLE DUPLICATE: 219420

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.5	20.7	17	5	R2

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019333

QC Batch: GCV/5627 Analysis Method: EPA 8015 Mod Pur

QC Batch Method: EPA 8015 Mod Pur Analysis Description: 8015 Solid GCV

Associated Lab Samples: 5019333001, 5019333002

METHOD BLANK: 220281 Matrix: Solid

Associated Lab Samples: 5019333001, 5019333002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	10/08/08 05:55	
4-Bromofluorobenzene (S)	%	121	40-159	10/08/08 05:55	

LABORATORY CONTROL SAMPLE: 220282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	8.8	88	79-128	
4-Bromofluorobenzene (S)	%			134	40-159	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 220283 220284

Parameter	Units	5019406007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
Gasoline Range Organics	mg/kg	ND	8.5	8	5.8	5.2	66	63	40-135	11	20
4-Bromofluorobenzene (S)	%						130	123	40-159		20

Date: 10/11/2008 01:12 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2600 Duncan Rd

Pace Project No.: 5019333

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### ANALYTE QUALIFIERS

1d Re-prep and re-analysis on 10-08-2008 confirms reported value.

R2 RPD value was outside control limits due to matrix interference



## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <b>IWM Consulting</b>	Report To: <b>Brad Gentry</b>	Copy To: <b>Donovan Wilczynski</b>	Attention:	Company Name:	
Address: <b>2428 Rockville Rd</b>	Purchase Order No.:			Address:	
Email To: <b>Indang@iwmconsult.com</b>	Project Name: <b>2600 Duncan Rd</b>			Pace Quote Reference:	<input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
Phone: <b>317-347-1111</b>	Project Number: <b>IN-LA-2600 Duncan Rd</b>			Pace Project Manager:	<input type="checkbox"/> UST <input checked="" type="checkbox"/> RCRA <input type="checkbox"/> OTHER
Requested Due Date/TAT: <b>Standard</b>				Site Location STATE:	
					Residual Chlorine (Y/N)
Section D Required Client Information					
SAMPLE ID (A-Z, 0-9, -,) Sample IDs MUST BE UNIQUE					
ITEM #	MATRIX CODES MATRIX / CODE	COLLECTED	Preservatives	Pace Project No./Lab I.D.	
	Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START	COMPOSITE END/GRAB		
1	Base 2	SL 6	9/26 10:40	6 3	-001
2	Stockpile 2	SL 6	9/26 14:30	6 3	-002
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		<i>Donovan Wilczynski</i>	9/26/03	4:35 PM	<i>Y/N/Y</i>
WT Chain D/1200 ORIGINAL Client D					
SAMPLER NAME AND SIGNATURE <i>Donovan Wilczynski</i>					
PRINT NAME OF SAMPLER: <b>Donovan Wilczynski</b>					
SIGNATURE OF SAMPLER: <b>D. Wilczynski</b>					
Temp in °C <b>69</b>					
Received on <b>9/26/03</b> Sealed Container (Y/N) <b>Y</b>					
Samples intact (Y/N) <b>Y</b>					
F-ALL-Q-020rev.07, 15-May-2007					

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



## Sample Condition Upon Receipt

Client Name: IWM Project # 5019333Courier:  FedEx  UPS  USPS  Client  Commercial  Pace Other

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  noPacking Material:  Bubble Wrap  Bubble Bags  None  OtherFoam

Thermometer Used

123456Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature

3.6Biological Tissue is Frozen: Yes  NoDate and Initials of person examining contents: 03/26/08

Temp should be above freezing to 6°C

Comments: \_\_\_\_\_

Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Reg TC Kit</u>	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>SOI</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

## Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Project Manager Review:

Kenneth HuntDate: 9/14/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

October 11, 2008

Mr. Brad Gentry  
IWM Consulting  
7428 Rockville Road  
Indianapolis, IN 46214

RE: Project: 2600 Duncan Rd.  
Pace Project No.: 5019418

Dear Mr. Gentry:

Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt

kenneth.hunt@pacelabs.com  
Project Manager

Illinois/NELAC Certification Number: 100418  
Indiana Certification Number: C-49-06  
Kansas Certification Number: E-10247  
Kentucky Certification Number: 0042  
Ohio VAP: CL0065  
Pennsylvania: 68-00791  
West Virginia Certification Number: 330

Enclosures

#### REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2600 Duncan Rd.

Pace Project No.: 5019418

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5019418001	Base 3	Solid	09/29/08 11:30	09/30/08 11:31
5019418002	Base 4	Solid	09/29/08 15:00	09/30/08 11:31

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 2600 Duncan Rd.  
 Pace Project No.: 5019418

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5019418001	Base 3	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CVR	2
5019418002	Base 4	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CVR	2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd.

Pace Project No.: 5019418

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**Sample: Base 3**      Lab ID: **5019418001**      Collected: 09/29/08 11:30      Received: 09/30/08 11:31      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	ND mg/kg		10.3	1	10/02/08 00:00	10/03/08 01:25		
n-Pentacosane (S)	59 %		45-170	1	10/02/08 00:00	10/03/08 01:25	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		0.94	1		10/08/08 22:46		
4-Bromofluorobenzene (S)	117 %		40-159	1		10/08/08 22:46	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.9 mg/kg		2.0	1	10/01/08 00:00	10/02/08 11:12	7440-38-2	
Barium	14.1 mg/kg		2.0	1	10/01/08 00:00	10/02/08 11:12	7440-39-3	
Cadmium	ND mg/kg		2.0	1	10/01/08 00:00	10/02/08 11:12	7440-43-9	
Chromium	6.5 mg/kg		2.0	1	10/01/08 00:00	10/02/08 11:12	7440-47-3	
Lead	3.9 mg/kg		2.0	1	10/01/08 00:00	10/02/08 11:12	7439-92-1	
Selenium	ND mg/kg		2.0	1	10/01/08 00:00	10/02/08 11:12	7782-49-2	
Silver	ND mg/kg		2.0	1	10/01/08 00:00	10/02/08 11:12	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.36	1	09/30/08 00:00	10/02/08 13:07	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	3.3 %		0.10	1		10/07/08 16:36		

Date: 10/11/2008 02:25 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd.  
Pace Project No.: 5019418

**Sample: Base 4** Lab ID: **5019418002** Collected: 09/29/08 15:00 Received: 09/30/08 11:31 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	ND mg/kg		10.4	1	10/02/08 00:00	10/03/08 04:09		
n-Pentacosane (S)	56 %		45-170	1	10/02/08 00:00	10/03/08 04:09	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.1	1		10/08/08 23:08		
4-Bromofluorobenzene (S)	130 %		40-159	1		10/08/08 23:08	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.9 mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:18	7440-38-2	
Barium	25.4 mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:18	7440-39-3	
Cadmium	ND mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:18	7440-43-9	
Chromium	6.1 mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:18	7440-47-3	
Lead	20.5 mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:18	7439-92-1	
Selenium	ND mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:18	7782-49-2	
Silver	ND mg/kg		1.9	1	10/01/08 00:00	10/02/08 11:18	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.33	1	09/30/08 00:00	10/02/08 13:08	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	3.4 %		0.10	1		10/07/08 16:36		

Date: 10/11/2008 02:25 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019418

QC Batch:	MERP/1827	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	5019418001, 5019418002		

METHOD BLANK: 217317 Matrix: Solid

Associated Lab Samples: 5019418001, 5019418002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.33	10/02/08 12:29	

LABORATORY CONTROL SAMPLE: 217318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.49	97	85-119	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 217319 217320

Parameter	Units	5019219012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.59	.64	0.61	0.65	98	97	50-150	5	20	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 217326 217327

Parameter	Units	5019171001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.54	.54	0.56	0.56	102	101	50-150	0	20	

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019418

QC Batch:	MPRP/3528	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	5019418001, 5019418002		

METHOD BLANK: 217616 Matrix: Solid

Associated Lab Samples: 5019418001, 5019418002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	10/02/08 08:18	
Barium	mg/kg	ND	2.0	10/02/08 08:18	
Cadmium	mg/kg	ND	2.0	10/02/08 08:18	
Chromium	mg/kg	ND	2.0	10/02/08 08:18	
Lead	mg/kg	ND	2.0	10/02/08 08:18	
Selenium	mg/kg	ND	2.0	10/02/08 08:18	
Silver	mg/kg	ND	2.0	10/02/08 08:18	

LABORATORY CONTROL SAMPLE: 217617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	51.3	103	85-118	
Barium	mg/kg	50	53.7	107	84-118	
Cadmium	mg/kg	50	51.2	102	83-115	
Chromium	mg/kg	50	51.9	104	82-117	
Lead	mg/kg	50	51.7	103	83-116	
Selenium	mg/kg	50	50.6	101	82-116	
Silver	mg/kg	25	23.3	93	77-123	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 217618 217619

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		5019275021	Spike Conc.	Spike Conc.	MS Result						
Arsenic	mg/kg	3.3	55.4	57.6	53.0	57.8	90	95	70-127	9	20
Barium	mg/kg	78.6	55.4	57.6	150	147	129	118	60-140	2	20
Cadmium	mg/kg	ND	55.4	57.6	49.2	54.3	89	94	65-120	10	20
Chromium	mg/kg	12.1	55.4	57.6	64.6	70.9	95	102	60-130	9	20
Lead	mg/kg	7.4	55.4	57.6	54.6	59.9	85	91	60-140	9	20
Selenium	mg/kg	ND	55.4	57.6	50.6	55.6	90	96	60-130	9	20
Silver	mg/kg	ND	27.7	28.9	23.3	25.6	84	89	70-130	9	20

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 217620 217621

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		5018136041	Spike Conc.	Spike Conc.	MS Result						
Arsenic	mg/kg	5.9	60.5	60	55.6	55.9	82	83	70-127	1	20
Barium	mg/kg	116	60.5	60	175	176	97	99	60-140	1	20
Cadmium	mg/kg	ND	60.5	60	48.0	46.5	79	77	65-120	3	20

Date: 10/11/2008 02:25 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019418

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 217620 217621

Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
			Spike Conc.	Spike Conc.							RPD	RPD
Chromium	mg/kg	21.1	60.5	60	76.8	73.2	92	87	60-130	5	20	
Lead	mg/kg	10.2	60.5	60	59.9	58.3	82	80	60-140	3	20	
Selenium	mg/kg	ND	60.5	60	48.9	47.5	80	79	60-130	3	20	
Silver	mg/kg	ND	30.3	29.9	22.9	22.2	76	74	70-130	3	20	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019418

QC Batch:	OEXT/9672	Analysis Method:	EPA 8015 Mod Ext
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015 Modified
Associated Lab Samples:	5019418001, 5019418002		

METHOD BLANK: 218090 Matrix: Solid

Associated Lab Samples: 5019418001, 5019418002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-ERO	mg/kg	ND	10.0	10/02/08 23:15	
n-Pentacosane (S)	%	69	45-170	10/02/08 23:15	

LABORATORY CONTROL SAMPLE: 218091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-ERO	mg/kg	83.3	56.2	67	41-139	
n-Pentacosane (S)	%			69	45-170	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 218092 218093

Parameter	Units	5019468002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
TPH-ERO	mg/kg	ND	86	86	56.9	55.6	60	59	40-146	2	20
n-Pentacosane (S)	%						65	62	45-170		20

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019418

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QC Batch:	PMST/2981	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples: 5019418001, 5019418002			

---

SAMPLE DUPLICATE: 220008

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.7	17.6	1	5	

---

SAMPLE DUPLICATE: 220009

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.5	11.4	0	5	

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019418

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QC Batch:	GCV/5640	Analysis Method:	EPA 8015 Mod Pur
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QC Batch Method:	EPA 8015 Mod Pur	Analysis Description:	8015 Solid GCV
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Associated Lab Samples:	5019418001, 5019418002
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METHOD BLANK:	220820	Matrix:	Solid
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Associated Lab Samples:	5019418001, 5019418002
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Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	10/08/08 21:16	
4-Bromofluorobenzene (S)	%	99	40-159	10/08/08 21:16	

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LABORATORY CONTROL SAMPLE:	220821
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Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	10.6	106	79-128	
4-Bromofluorobenzene (S)	%			140	40-159	

Date: 10/11/2008 02:25 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2600 Duncan Rd.

Pace Project No.: 5019418

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <u>W.M. Consulting</u>	Report To: <u>Brid Gerrity</u>	Copy To: <u>Donovan Witzgansk</u>	Company Name: _____	Attention: _____	_____
Address: <u>2428 Rockville Rd</u>	Purchase Order No.: _____	Address: _____	<b>REGULATORY AGENCY</b>	<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER
Email To: <u>lannaholis.In@gmail.com</u>	Project Name: <u>2600 Duncan Rd</u>	Phone: <u>(301) 432-1234</u>	Reference: _____	<input type="checkbox"/> US	<input type="checkbox"/> OTHER
Requested Due Date/TAT: <u>Standard</u>	Project Number: <u>JNL at 2600 Duncan Rd</u>	Pace Project Manager: _____	Pace Profile #: _____	<input type="checkbox"/> RCRA	_____
Site Location STATE: _____					
Residual Chlorine (Y/N): _____					
Site Location STATE: _____					
Pace Project No./Lab ID: <u>5019418</u>					
Requested Analysis Filtered (Y/N)					
<b>SAMPLE ID</b> <small>(A-Z, 0-9, -)</small> # Sample IDs MUST BE UNIQUE	COLLECTED		Preservatives		Analysis Test # OF CONTAINERS
	MATRIX CODE Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COMPOSITE START	COMPOSITE END/GRAB	Na <sub>2</sub> SO <sub>3</sub> NaOH HCl HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> Unpreserved	
ITEM #	MATRIX CODE DW WT WW P SL OL WP AR TS OT	DATE 9/26 9/26	TIME 11:30 15:06	TIME 6 6	TIME 3 3
1	Basey 3	9/26	11:30	6	12
2	Basey 4	9/26	15:06	6	12
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
ADDITIONAL COMMENTS		REINFORCED BY / AFFILIATION		DATE: <u>9/30/08</u>	TIME: <u>11:31</u>
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Donovan Witzgansk</u>		ACCEPTED BY / AFFILIATION		DATE: <u>9/30/08</u>	TIME: <u>11:31</u>
ORIGINAL					
SAMPLE CONDITIONS					
Temp in °C Reeived On Custody Seal Sealed/Cooler (Y/N)					
Temp in °C Reeived On Custody Seal Sealed/Cooler (Y/N)					
Samples intact (Y/N)					

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



## Sample Condition Upon Receipt

Client Name: JWMProject # SD19418

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other  
 Tracking #: \_\_\_\_\_

Optional Fields
Prod/Dvc/Date
Proj/Name

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used 123456Type of Ice:  Wet  Blue  None Samples on ice, cooling process has begunCooler Temperature 1.3 °CBiological Tissue Is Frozen: Yes  NoComments: Date and Initials of person examining contents: 9/30/08 27

Temp should be above freezing to 6°C

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Terra Care</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>SL</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<u>N/A</u>	

## Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_\_\_\_\_\_  
\_\_\_\_\_Project Manager Review: Kenneth HuntDate: 9/30/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

October 15, 2008

Mr. Brad Gentry  
IWM Consulting  
7428 Rockville Road  
Indianapolis, IN 46214

RE: Project: 2600 Duncan Road  
Pace Project No.: 5019514

Dear Mr. Gentry:

Enclosed are the analytical results for sample(s) received by the laboratory on October 02, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt

kenneth.hunt@pacelabs.com  
Project Manager

Illinois/NELAC Certification Number: 100418  
Indiana Certification Number: C-49-06  
Kansas Certification Number: E-10247  
Kentucky Certification Number: 0042  
Ohio VAP: CL0065  
Pennsylvania: 68-00791  
West Virginia Certification Number: 330

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2600 Duncan Road  
Pace Project No.: 5019514

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5019514001	Base 5	Solid	09/30/08 09:00	10/02/08 07:54
5019514002	Stockpile 3	Solid	09/30/08 11:30	10/02/08 07:54

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 2600 Duncan Road  
 Pace Project No.: 5019514

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5019514001	<b>Base 5</b>	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2
5019514002	<b>Stockpile 3</b>	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Road  
Pace Project No.: 5019514

**Sample: Base 5** Lab ID: 5019514001 Collected: 09/30/08 09:00 Received: 10/02/08 07:54 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	ND mg/kg		10.3	1	10/06/08 00:00	10/06/08 20:04		
n-Pentacosane (S)	48 %		45-170	1	10/06/08 00:00	10/06/08 20:04	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.0	1		10/10/08 23:06		
4-Bromofluorobenzene (S)	142 %		40-159	1		10/10/08 23:06	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.4 mg/kg		1.9	1	10/06/08 00:00	10/07/08 15:56	7440-38-2	
Barium	13.1 mg/kg		1.9	1	10/06/08 00:00	10/07/08 15:56	7440-39-3	
Cadmium	ND mg/kg		1.9	1	10/06/08 00:00	10/07/08 15:56	7440-43-9	
Chromium	8.5 mg/kg		1.9	1	10/06/08 00:00	10/07/08 15:56	7440-47-3	
Lead	5.5 mg/kg		1.9	1	10/06/08 00:00	10/07/08 15:56	7439-92-1	
Selenium	ND mg/kg		1.9	1	10/06/08 00:00	10/07/08 15:56	7782-49-2	
Silver	ND mg/kg		1.9	1	10/06/08 00:00	10/07/08 15:56	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.34	1	10/06/08 00:00	10/08/08 14:53	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	3.4 %		0.10	1		10/07/08 16:48		

Date: 10/15/2008 03:05 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Road  
Pace Project No.: 5019514

**Sample: Stockpile 3** Lab ID: **5019514002** Collected: 09/30/08 11:30 Received: 10/02/08 07:54 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>232</b> mg/kg		54.3	5	10/06/08 00:00	10/06/08 21:56		
n-Pentacosane (S)	89 %		45-170	5	10/06/08 00:00	10/06/08 21:56	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.2	1		10/10/08 23:29		
4-Bromofluorobenzene (S)	138 %		40-159	1		10/10/08 23:29	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>7.5</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:02	7440-38-2	
Barium	<b>83.3</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:02	7440-39-3	
Cadmium	ND mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:02	7440-43-9	
Chromium	<b>19.6</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:02	7440-47-3	
Lead	<b>92.4</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:02	7439-92-1	
Selenium	ND mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:02	7782-49-2	
Silver	ND mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:02	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.37	1	10/06/08 00:00	10/08/08 14:54	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>7.9</b> %		0.10	1		10/07/08 16:48		

Date: 10/15/2008 03:05 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Road

Pace Project No.: 5019514

QC Batch:	MPRP/3547	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	5019514001, 5019514002		

METHOD BLANK:	219324	Matrix:	Solid
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Associated Lab Samples: 5019514001, 5019514002

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Arsenic	mg/kg	ND	2.0	10/07/08 14:43	
Barium	mg/kg	ND	2.0	10/07/08 14:43	
Cadmium	mg/kg	ND	2.0	10/07/08 14:43	
Chromium	mg/kg	ND	2.0	10/07/08 14:43	
Lead	mg/kg	ND	2.0	10/07/08 14:43	
Selenium	mg/kg	ND	2.0	10/07/08 14:43	
Silver	mg/kg	ND	2.0	10/07/08 14:43	

LABORATORY CONTROL SAMPLE: 219325

Parameter	Units	Spike	LCS		% Rec		Qualifiers
		Conc.	Result	% Rec	Limits		
Arsenic	mg/kg	50	52.8	106	85-118		
Barium	mg/kg	50	53.8	108	84-118		
Cadmium	mg/kg	50	48.7	97	83-115		
Chromium	mg/kg	50	51.0	102	82-117		
Lead	mg/kg	50	49.0	98	83-116		
Selenium	mg/kg	50	47.9	96	82-116		
Silver	mg/kg	25	25.3	101	77-123		

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219326 219327

Parameter	Units	MS		MSD		MS	MSD	% Rec	Limits	RPD	RPD	Max
		5019533001	Spike	Spike	Conc.	Result	% Rec					
Arsenic	mg/kg	ND	64.6	66.6	70.8	73.5	105	107	70-127	4	20	
Barium	mg/kg	92.2	64.6	66.6	160	160	58	57	60-140	0	20	M3
Cadmium	mg/kg	ND	64.6	66.6	57.9	61.5	86	89	65-120	6	20	
Chromium	mg/kg	46.7	64.6	66.6	121	132	90	104	60-130	9	20	
Lead	mg/kg	62.2	64.6	66.6	137	117	85	51	60-140	16	20	M3
Selenium	mg/kg	ND	64.6	66.6	61.3	63.1	93	93	60-130	3	20	
Silver	mg/kg	ND	32.4	33.3	33.6	34.4	104	103	70-130	2	20	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219328 219329

Parameter	Units	MS		MSD		MS	MSD	% Rec	Limits	RPD	RPD	Max
		5019600002	Spike	Spike	Conc.	Result	% Rec					
Arsenic	mg/kg	7.9	52.2	52.6	54.9	54.4	90	88	70-127	1	20	
Barium	mg/kg	69.6	52.2	52.6	125	121	107	98	60-140	4	20	
Cadmium	mg/kg	ND	52.2	52.6	40.9	41.6	78	79	65-120	2	20	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Road

Pace Project No.: 5019514

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219328 219329

Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Limits	RPD	Max
			Spike Conc.	Spike Conc.									
Chromium	mg/kg	12.9	52.2	52.6	61.6	63.3	93	96	60-130	3	20		
Lead	mg/kg	44.5	52.2	52.6	80.5	90.3	69	87	60-140	11	20		
Selenium	mg/kg	ND	52.2	52.6	43.7	43.8	82	81	60-130	0	20		
Silver	mg/kg	ND	26	26.4	23.1	23.1	88	88	70-130	0	20		

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Road

Pace Project No.: 5019514

QC Batch:	OEXT/9726	Analysis Method:	EPA 8015 Mod Ext
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015 Modified
Associated Lab Samples:	5019514001, 5019514002		

METHOD BLANK: 219349 Matrix: Solid

Associated Lab Samples: 5019514001, 5019514002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-ERO	mg/kg	ND	10.0	10/06/08 16:18	
n-Pentacosane (S)	%	82	45-170	10/06/08 16:18	

LABORATORY CONTROL SAMPLE: 219350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-ERO	mg/kg	83.3	45.1	54	41-139	
n-Pentacosane (S)	%			63	45-170	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219777 219778

Parameter	Units	5019320010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-ERO	mg/kg	ND	86.3	86.3	36.3	43.0	41	49	40-146	17	20	
n-Pentacosane (S)	%						48	54	45-170			20

## QUALITY CONTROL DATA

Project: 2600 Duncan Road

Pace Project No.: 5019514

QC Batch:	MERP/1835	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	5019514001, 5019514002		

METHOD BLANK: 219367 Matrix: Solid

Associated Lab Samples: 5019514001, 5019514002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.33	10/08/08 14:28	

LABORATORY CONTROL SAMPLE: 219368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.51	102	85-119	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219369 219370

Parameter	Units	5019533001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.64	.67	0.65	0.69	96	99	50-150	6	20	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219371 219372

Parameter	Units	5019600002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.52	.52	0.67	0.69	127	131	50-150	3	20	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219373 219374

Parameter	Units	5019275010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.55	.55	0.59	0.60	104	105	50-150	1	20	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Road

Pace Project No.: 5019514

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QC Batch:	PMST/2983	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples: 5019514001, 5019514002			

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SAMPLE DUPLICATE: 220012

Parameter	Units	5019498002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.9	15.9	0	5	

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SAMPLE DUPLICATE: 220013

Parameter	Units	5019514002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.9	7.2	9	5	R2

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Road

Pace Project No.: 5019514

QC Batch: GCV/5676 Analysis Method: EPA 8015 Mod Pur

QC Batch Method: EPA 8015 Mod Pur Analysis Description: 8015 Solid GCV

Associated Lab Samples: 5019514001, 5019514002

METHOD BLANK: 222132 Matrix: Solid

Associated Lab Samples: 5019514001, 5019514002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	10/10/08 17:52	
4-Bromofluorobenzene (S)	%	138	40-159	10/10/08 17:52	

LABORATORY CONTROL SAMPLE: 222133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	9.4	94	79-128	
4-Bromofluorobenzene (S)	%			161	40-159 S0	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 222134 222135

Parameter	Units	5019582025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
Gasoline Range Organics	mg/kg	ND	7.3	8.9	3.0	3.7	37	38	40-135	19	20 M0
4-Bromofluorobenzene (S)	%						147	148	40-159	20	R1

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## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2600 Duncan Road

Pace Project No.: 5019514

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

R1 RPD value was outside control limits.

R2 RPD value was outside control limits due to matrix interference

S0 Surrogate recovery outside laboratory control limits.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:																																																																																					
Company: <b>JWM Consulting Group</b> Address: <b>7428 Rockville Rd Indy, IN 46214</b> Email To: <b>b_gentry@jwmconsult.com</b> Phone: <b>317-347-3496</b> Requested Due Date/TAT: <b>Standard</b>		Report To: <b>Bread Gentry</b> Copy To: <b>Same</b> Purchase Order No.: <b>2600 Duncan Rd</b> Project Name: <b>Project Number: JWM.LAF.GCDC 2600 Duncan</b>		Attention: <b>Bread Gentry</b> Company Name: <b>JWM</b> Address: <b>Same</b> Pace Quote Reference: Pace Project Manager: <b>Ken Hunt</b> Pace Profile #: <b>1J</b>																																																																																					
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ORIGINAL

Samples intact (Y/N)

Groundwater (Y/N)

Regulatory Agency

NPDES (Y/N)

RCRA (Y/N)

DRINKING WATER (Y/N)

OTHER (Y/N)



## Sample Condition Upon Receipt

Client Name: WJM Project # 5019514Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other  
Tracking #: \_\_\_\_\_

Optional	Printed Name _____
Printed Name _____	Phone Number _____

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  noPacking Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_Thermometer Used 123056Type of Ice:  Wet  Blue  None Samples on ice, cooling process has begunCooler Temperature 1.2°CBiological Tissue Is Frozen: Yes  NoDate and Initials of person examining contents: 10/2/08 27

Temp should be above freezing to 6°C

Comments: \_\_\_\_\_

Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. ( <i>Terra cores</i> )
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<i>SL</i>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<i>N/A</i>	

## Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Project Manager Review:

*Kenneth R. Knott*Date: 10/2/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

October 15, 2008

Mr. Brad Gentry  
IWM Consulting  
7428 Rockville Road  
Indianapolis, IN 46214

RE: Project: 2600 Duncan Rd  
Pace Project No.: 5019551

Dear Mr. Gentry:

Enclosed are the analytical results for sample(s) received by the laboratory on October 02, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt

kenneth.hunt@pacelabs.com  
Project Manager

Illinois/NELAC Certification Number: 100418  
Indiana Certification Number: C-49-06  
Kansas Certification Number: E-10247  
Kentucky Certification Number: 0042  
Ohio VAP: CL0065  
Pennsylvania: 68-00791  
West Virginia Certification Number: 330

Enclosures

## REPORT OF LABORATORY ANALYSIS

Page 1 of 13

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## SAMPLE SUMMARY

Project: 2600 Duncan Rd  
Pace Project No.: 5019551

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5019551001	Sidewall 1	Solid	10/02/08 08:30	10/02/08 16:10
5019551002	Sidewall 2	Solid	10/02/08 11:00	10/02/08 16:10
5019551003	Sidewall 3	Solid	10/02/08 15:00	10/02/08 16:10

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 2600 Duncan Rd  
 Pace Project No.: 5019551

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5019551001	Sidewall 1	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2
5019551002	Sidewall 2	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2
5019551003	Sidewall 3	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd  
Pace Project No.: 5019551

**Sample: Sidewall 1** Lab ID: **5019551001** Collected: 10/02/08 08:30 Received: 10/02/08 16:10 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	ND mg/kg		10.2	1	10/08/08 00:00	10/09/08 00:19		
n-Pentacosane (S)	58 %		45-170	1	10/08/08 00:00	10/09/08 00:19	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.2	1		10/13/08 19:56		
4-Bromofluorobenzene (S)	73 %		40-159	1		10/13/08 19:56	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	3.8 mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:08	7440-38-2	
Barium	12.0 mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:08	7440-39-3	
Cadmium	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:08	7440-43-9	
Chromium	8.3 mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:08	7440-47-3	
Lead	4.3 mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:08	7439-92-1	
Selenium	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:08	7782-49-2	
Silver	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:08	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.34	1	10/06/08 00:00	10/08/08 14:56	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	2.0 %		0.10	1		10/08/08 17:17		

## ANALYTICAL RESULTS

Project: 2600 Duncan Rd  
Pace Project No.: 5019551

**Sample: Sidewall 2** Lab ID: **5019551002** Collected: 10/02/08 11:00 Received: 10/02/08 16:10 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	ND mg/kg		11.3	1	10/08/08 00:00	10/09/08 04:24		
n-Pentacosane (S)	65 %		45-170	1	10/08/08 00:00	10/09/08 04:24	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		0.96	1		10/13/08 20:19		
4-Bromofluorobenzene (S)	86 %		40-159	1		10/13/08 20:19	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	8.8 mg/kg		2.2	1	10/06/08 00:00	10/07/08 16:13	7440-38-2	
Barium	99.5 mg/kg		2.2	1	10/06/08 00:00	10/07/08 16:13	7440-39-3	
Cadmium	ND mg/kg		2.2	1	10/06/08 00:00	10/07/08 16:13	7440-43-9	
Chromium	16.6 mg/kg		2.2	1	10/06/08 00:00	10/07/08 16:13	7440-47-3	
Lead	13.7 mg/kg		2.2	1	10/06/08 00:00	10/07/08 16:13	7439-92-1	
Selenium	ND mg/kg		2.2	1	10/06/08 00:00	10/07/08 16:13	7782-49-2	
Silver	ND mg/kg		2.2	1	10/06/08 00:00	10/07/08 16:13	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.39	1	10/06/08 00:00	10/08/08 14:57	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	11.8 %		0.10	1		10/08/08 17:17		

## ANALYTICAL RESULTS

Project: 2600 Duncan Rd  
Pace Project No.: 5019551

**Sample: Sidewall 3** Lab ID: **5019551003** Collected: 10/02/08 15:00 Received: 10/02/08 16:10 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	ND mg/kg		10.2	1	10/08/08 00:00	10/09/08 01:08		
n-Pentacosane (S)	70 %		45-170	1	10/08/08 00:00	10/09/08 01:08	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		0.97	1		10/13/08 20:41		
4-Bromofluorobenzene (S)	79 %		40-159	1		10/13/08 20:41	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	4.5 mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:19	7440-38-2	
Barium	11.7 mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:19	7440-39-3	
Cadmium	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:19	7440-43-9	
Chromium	4.5 mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:19	7440-47-3	
Lead	3.4 mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:19	7439-92-1	
Selenium	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:19	7782-49-2	
Silver	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:19	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.35	1	10/06/08 00:00	10/08/08 15:01	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	2.3 %		0.10	1		10/08/08 17:17		

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019551

QC Batch: MPRP/3547 Analysis Method: EPA 6010  
QC Batch Method: EPA 3050 Analysis Description: 6010 MET

Associated Lab Samples: 5019551001, 5019551002, 5019551003

METHOD BLANK: 219324 Matrix: Solid

Associated Lab Samples: 5019551001, 5019551002, 5019551003

Parameter	Units	Blank Result	Reporting Limit		Analyzed	Qualifiers
			Limit	Analyzed		
Arsenic	mg/kg	ND	2.0	10/07/08 14:43		
Barium	mg/kg	ND	2.0	10/07/08 14:43		
Cadmium	mg/kg	ND	2.0	10/07/08 14:43		
Chromium	mg/kg	ND	2.0	10/07/08 14:43		
Lead	mg/kg	ND	2.0	10/07/08 14:43		
Selenium	mg/kg	ND	2.0	10/07/08 14:43		
Silver	mg/kg	ND	2.0	10/07/08 14:43		

LABORATORY CONTROL SAMPLE: 219325

Parameter	Units	Spike Conc.	LCS		% Rec Limits	Qualifiers
			Result	% Rec		
Arsenic	mg/kg	50	52.8	106	85-118	
Barium	mg/kg	50	53.8	108	84-118	
Cadmium	mg/kg	50	48.7	97	83-115	
Chromium	mg/kg	50	51.0	102	82-117	
Lead	mg/kg	50	49.0	98	83-116	
Selenium	mg/kg	50	47.9	96	82-116	
Silver	mg/kg	25	25.3	101	77-123	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219326 219327

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
		5019533001	Spike Conc.	Spike Conc.	MS Result					
Arsenic	mg/kg	ND	64.6	66.6	70.8	73.5	105	107	70-127	4 20
Barium	mg/kg	92.2	64.6	66.6	160	160	58	57	60-140	0 20 M3
Cadmium	mg/kg	ND	64.6	66.6	57.9	61.5	86	89	65-120	6 20
Chromium	mg/kg	46.7	64.6	66.6	121	132	90	104	60-130	9 20
Lead	mg/kg	62.2	64.6	66.6	137	117	85	51	60-140	16 20 M3
Selenium	mg/kg	ND	64.6	66.6	61.3	63.1	93	93	60-130	3 20
Silver	mg/kg	ND	32.4	33.3	33.6	34.4	104	103	70-130	2 20

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219328 219329

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
		5019600002	Spike Conc.	Spike Conc.	MS Result					
Arsenic	mg/kg	7.9	52.2	52.6	54.9	54.4	90	88	70-127	1 20
Barium	mg/kg	69.6	52.2	52.6	125	121	107	98	60-140	4 20
Cadmium	mg/kg	ND	52.2	52.6	40.9	41.6	78	79	65-120	2 20

Date: 10/15/2008 03:41 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019551

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219328 219329

Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Limits	RPD	Max
			5019600002	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	RPD	RPD	Qual	
Chromium	mg/kg	12.9	52.2	52.6	61.6	63.3	93	96	60-130	3	20		
Lead	mg/kg	44.5	52.2	52.6	80.5	90.3	69	87	60-140	11	20		
Selenium	mg/kg	ND	52.2	52.6	43.7	43.8	82	81	60-130	0	20		
Silver	mg/kg	ND	26	26.4	23.1	23.1	88	88	70-130	0	20		

Date: 10/15/2008 03:41 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019551

QC Batch:	MERP/1835	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	5019551001, 5019551002, 5019551003		

METHOD BLANK: 219367 Matrix: Solid

Associated Lab Samples: 5019551001, 5019551002, 5019551003

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury	mg/kg	ND	0.33	10/08/08 14:28	

LABORATORY CONTROL SAMPLE: 219368

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury	mg/kg	.5	0.51	102	85-119	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219369 219370

Parameter	Units	5019533001	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike										
Mercury	mg/kg	ND	.64	.67	0.65	0.69	96	99	50-150	6	20			

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219371 219372

Parameter	Units	5019600002	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike										
Mercury	mg/kg	ND	.52	.52	0.67	0.69	127	131	50-150	3	20			

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219373 219374

Parameter	Units	5019275010	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike										
Mercury	mg/kg	ND	.55	.55	0.59	0.60	104	105	50-150	1	20			

Date: 10/15/2008 03:41 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019551

QC Batch: OEXT/9758 Analysis Method: EPA 8015 Mod Ext

QC Batch Method: EPA 3546 Analysis Description: EPA 8015 Modified

Associated Lab Samples: 5019551001, 5019551002, 5019551003

METHOD BLANK: 220071 Matrix: Solid

Associated Lab Samples: 5019551001, 5019551002, 5019551003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-ERO	mg/kg	ND	10.0	10/08/08 23:30	
n-Pentacosane (S)	%	59	45-170	10/08/08 23:30	

LABORATORY CONTROL SAMPLE: 220072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-ERO	mg/kg	83.3	55.8	67	41-139	
n-Pentacosane (S)	%			74	45-170	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 220073 220074

Parameter	Units	5019626007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
TPH-ERO	mg/kg	2980	100	100	3440	2780	457	-206	40-146	21	20 P6,R1
n-Pentacosane (S)	%						0	0	45-170	20	S4

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019551

---

QC Batch:	PMST/2985	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples: 5019551001, 5019551002, 5019551003			

---

SAMPLE DUPLICATE: 220416

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.0	2.1	2	5	

---

SAMPLE DUPLICATE: 220417

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.8	15.8	6	5	R2

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019551

QC Batch: GCV/5690 Analysis Method: EPA 8015 Mod Pur

QC Batch Method: EPA 8015 Mod Pur Analysis Description: 8015 Solid GCV

Associated Lab Samples: 5019551001, 5019551002, 5019551003

METHOD BLANK: 222493 Matrix: Solid

Associated Lab Samples: 5019551001, 5019551002, 5019551003

Parameter	Units	Blank Result	Reporting			Qualifiers
			Limit	Analyzed		
Gasoline Range Organics	mg/kg	ND	1.0	10/13/08 15:48		
4-Bromofluorobenzene (S)	%	79	40-159	10/13/08 15:48		

LABORATORY CONTROL SAMPLE: 222494

Parameter	Units	Spike Conc.	LCS		% Rec Limits	Qualifiers
			Result	% Rec		
Gasoline Range Organics	mg/kg	10	9.1	91	79-128	
4-Bromofluorobenzene (S)	%			102	40-159	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 222495 222496

Parameter	Units	5019588001 Result	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec	Max	
			Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Gasoline Range Organics	mg/kg	ND	8.2	7.4	5.3	4.6	60	57	40-135	14	20
4-Bromofluorobenzene (S)	%						84	87	40-159		20

Date: 10/15/2008 03:41 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2600 Duncan Rd

Pace Project No.: 5019551

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### ANALYTE QUALIFIERS

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

R1 RPD value was outside control limits.

R2 RPD value was outside control limits due to matrix interference

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <b>W.W. Corson &amp; P.R.D.</b>	Report To: <b>Copy To:</b>	Attention: <b> </b>	Company Name: <b> </b>	Address: <b> </b>	NPDES: <input type="checkbox"/> GROUND WATER: <input type="checkbox"/> DRINKING WATER: <input type="checkbox"/> OTHER: <input type="checkbox"/>
Address: <b>7428 Rockwood Rd</b>					RCRA: <input type="checkbox"/> UST: <input type="checkbox"/> RCRA: <input type="checkbox"/>
Email To: <b>lsgutierrez@wrcorson.com</b>	Purchase Order No.: <b> </b>	Pace Quote Reference: <b> </b>	Site Location: <b> </b>	Site Project Manager: <b> </b>	STATE: <b> </b>
Phone: <b>317-341-1111</b>	Project Name: <b>2600 Duncan Rd</b>				
Requested Due Date/TAT: <b>Standard</b>	Project Number: <b> </b>				
ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	DATE	TIME	DATE	TIME
1	<b>Sidewall 1</b>	<b>9/6/02</b>	<b>8:30</b>	<b>9/6/02</b>	<b>12:00</b>
2	<b>Sidewall 3</b>	<b>9/6/02</b>	<b>11:00</b>	<b>9/6/02</b>	<b>1:30</b>
3	<b>Sidewall 2</b>	<b>9/6/02</b>	<b>15:00</b>	<b>9/6/02</b>	<b>1:30</b>
4					
5					
6					
7					
8					
9					
10					
11					
12					
ADDITIONAL COMMENTS:		RELINQUISHED BY/AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<b> </b>		<b>John DeJ</b>	<b>10/02</b>	<b>16:10</b>	<b>N Y</b>
SAMPLE NAME AND SIGNATURE ORIGINAL		<b>John DeJ</b>			
PRINT Name of SAMPLER: <b>Donovan W. Corson</b>		DATE Signed (MM/DD/YY): <b>10/02/08</b>			
Temp In °C Received on DATE (Y/N)		Temp In °C Received on DATE (Y/N)			
Custody Seal Lee (Y/N)		Custody Seal Samples intact (Y/N)			

\*Important Notes: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

## Sample Condition Upon Receipt

Client Name: IWM Project # 5019551Courier:  FedEx  UPS  USPS  Client  Commercial  Pace Other

Tracking #: \_\_\_\_\_

Optional
Prod. Date
Prod. Name

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  noPacking Material:  Bubble Wrap  Bubble Bags  None  Other FoamThermometer Used 123456Type of Ice: Wet  Blue  None Samples on ice, cooling process has begunCooler Temperature -0.1°CBiological Tissue Is Frozen: Yes  NoDate and Initials of person examining contents: DPJ/2/08

Temp should be above freezing to 6°C

Comments: \_\_\_\_\_

Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>10/2/08 C20 Reg Rats</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>Carter/SO3</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

## Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_Project Manager Review: Kenneth HuntDate: 10/2/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

October 16, 2008

Mr. Brad Gentry  
IWM Consulting  
7428 Rockville Road  
Indianapolis, IN 46214

RE: Project: 2600 Duncan Rd  
Pace Project No.: 5019600

Dear Mr. Gentry:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt

kenneth.hunt@pacelabs.com  
Project Manager

Illinois/NELAC Certification Number: 100418  
Indiana Certification Number: C-49-06  
Kansas Certification Number: E-10247  
Kentucky Certification Number: 0042  
Ohio VAP: CL0065  
Pennsylvania: 68-00791  
West Virginia Certification Number: 330

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2600 Duncan Rd  
 Pace Project No.: 5019600

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5019600001	<b>Sidewall 4</b>	Solid	10/03/08 08:50	10/03/08 16:26
5019600002	<b>Stockpile 4</b>	Solid	10/03/08 10:00	10/03/08 16:26
5019600003	<b>Sidewall 5</b>	Solid	10/03/08 11:20	10/03/08 16:26
5019600004	<b>Sidewall 6</b>	Solid	10/03/08 13:30	10/03/08 16:26
5019600005	<b>Duplicate</b>	Solid	10/03/08 08:00	10/03/08 16:26

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 2600 Duncan Rd  
Pace Project No.: 5019600

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5019600001	Sidewall 4	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2
5019600002	Stockpile 4	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2
5019600003	Sidewall 5	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2
5019600004	Sidewall 6	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2
5019600005	Duplicate	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd

Pace Project No.: 5019600

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**Sample: Sidewall 4**      Lab ID: **5019600001**      Collected: 10/03/08 08:50      Received: 10/03/08 16:26      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>12.2</b> mg/kg		10.9	1	10/09/08 00:00	10/09/08 17:11		
n-Pentacosane (S)	69 %		45-170	1	10/09/08 00:00	10/09/08 17:11	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.2	1		10/14/08 02:18		
4-Bromofluorobenzene (S)	80 %		40-159	1		10/14/08 02:18	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>5.9</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:36	7440-38-2	
Barium	<b>75.2</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:36	7440-39-3	
Cadmium	ND mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:36	7440-43-9	
Chromium	<b>9.8</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:36	7440-47-3	
Lead	<b>13.9</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:36	7439-92-1	
Selenium	ND mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:36	7782-49-2	
Silver	ND mg/kg		2.1	1	10/06/08 00:00	10/07/08 16:36	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.35	1	10/06/08 00:00	10/08/08 15:03	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>8.3</b> %		0.10	1		10/09/08 17:49		

Date: 10/16/2008 09:41 AM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd  
Pace Project No.: 5019600

**Sample: Stockpile 4** Lab ID: **5019600002** Collected: 10/03/08 10:00 Received: 10/03/08 16:26 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>31.8</b> mg/kg		10.9	1	10/09/08 00:00	10/09/08 17:53		
n-Pentacosane (S)	83 %		45-170	1	10/09/08 00:00	10/09/08 17:53	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.0	1		10/14/08 02:40		
4-Bromofluorobenzene (S)	86 %		40-159	1		10/14/08 02:40	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>7.9</b> mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:42	7440-38-2	
Barium	<b>69.6</b> mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:42	7440-39-3	
Cadmium	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:42	7440-43-9	
Chromium	<b>12.9</b> mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:42	7440-47-3	
Lead	<b>44.5</b> mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:42	7439-92-1	
Selenium	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:42	7782-49-2	
Silver	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 16:42	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.36	1	10/06/08 00:00	10/08/08 15:04	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>7.9</b> %		0.10	1		10/09/08 17:49		

Date: 10/16/2008 09:41 AM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd  
Pace Project No.: 5019600

**Sample: Sidewall 5** Lab ID: **5019600003** Collected: 10/03/08 11:20 Received: 10/03/08 16:26 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	ND mg/kg		10.5	1	10/09/08 00:00	10/09/08 16:42		
n-Pentacosane (S)	79 %		45-170	1	10/09/08 00:00	10/09/08 16:42	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.0	1		10/14/08 03:47		
4-Bromofluorobenzene (S)	83 %		40-159	1		10/14/08 03:47	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	9.3 mg/kg		1.9	1	10/06/08 00:00	10/07/08 17:27	7440-38-2	
Barium	33.8 mg/kg		1.9	1	10/06/08 00:00	10/07/08 17:27	7440-39-3	
Cadmium	ND mg/kg		1.9	1	10/06/08 00:00	10/07/08 17:27	7440-43-9	
Chromium	16.0 mg/kg		1.9	1	10/06/08 00:00	10/07/08 17:27	7440-47-3	
Lead	36.3 mg/kg		1.9	1	10/06/08 00:00	10/07/08 17:27	7439-92-1	
Selenium	ND mg/kg		1.9	1	10/06/08 00:00	10/07/08 17:27	7782-49-2	
Silver	ND mg/kg		1.9	1	10/06/08 00:00	10/07/08 17:27	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.35	1	10/06/08 00:00	10/08/08 15:08	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	4.4 %		0.10	1		10/09/08 17:49		

Date: 10/16/2008 09:41 AM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd  
Pace Project No.: 5019600

**Sample: Sidewall 6** Lab ID: **5019600004** Collected: 10/03/08 13:30 Received: 10/03/08 16:26 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>16.8</b> mg/kg		10.9	1	10/09/08 00:00	10/09/08 16:35		
n-Pentacosane (S)	52 %		45-170	1	10/09/08 00:00	10/09/08 16:35	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.1	1		10/14/08 04:10		
4-Bromofluorobenzene (S)	88 %		40-159	1		10/14/08 04:10	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>5.8</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 17:33	7440-38-2	
Barium	<b>86.0</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 17:33	7440-39-3	
Cadmium	ND mg/kg		2.1	1	10/06/08 00:00	10/07/08 17:33	7440-43-9	
Chromium	<b>10.6</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 17:33	7440-47-3	
Lead	<b>14.3</b> mg/kg		2.1	1	10/06/08 00:00	10/07/08 17:33	7439-92-1	
Selenium	ND mg/kg		2.1	1	10/06/08 00:00	10/07/08 17:33	7782-49-2	
Silver	ND mg/kg		2.1	1	10/06/08 00:00	10/07/08 17:33	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.36	1	10/06/08 00:00	10/08/08 15:10	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>7.9</b> %		0.10	1		10/09/08 17:50		

## ANALYTICAL RESULTS

Project: 2600 Duncan Rd

Pace Project No.: 5019600

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**Sample: Duplicate**      Lab ID: **5019600005**      Collected: 10/03/08 08:00      Received: 10/03/08 16:26      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>11.2</b> mg/kg		10.8	1	10/09/08 00:00	10/09/08 16:56		
n-Pentacosane (S)	63 %		45-170	1	10/09/08 00:00	10/09/08 16:56	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.1	1		10/14/08 04:32		
4-Bromofluorobenzene (S)	80 %		40-159	1		10/14/08 04:32	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>6.2</b> mg/kg		2.0	1	10/06/08 00:00	10/07/08 17:38	7440-38-2	
Barium	<b>74.4</b> mg/kg		2.0	1	10/06/08 00:00	10/07/08 17:38	7440-39-3	
Cadmium	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 17:38	7440-43-9	
Chromium	<b>10.6</b> mg/kg		2.0	1	10/06/08 00:00	10/07/08 17:38	7440-47-3	
Lead	<b>12.0</b> mg/kg		2.0	1	10/06/08 00:00	10/07/08 17:38	7439-92-1	
Selenium	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 17:38	7782-49-2	
Silver	ND mg/kg		2.0	1	10/06/08 00:00	10/07/08 17:38	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.35	1	10/06/08 00:00	10/08/08 15:11	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>7.8</b> %		0.10	1		10/09/08 17:50		

Date: 10/16/2008 09:41 AM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019600

QC Batch: MPRP/3547 Analysis Method: EPA 6010

QC Batch Method: EPA 3050 Analysis Description: 6010 MET

Associated Lab Samples: 5019600001, 5019600002, 5019600003, 5019600004, 5019600005

METHOD BLANK: 219324 Matrix: Solid

Associated Lab Samples: 5019600001, 5019600002, 5019600003, 5019600004, 5019600005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	10/07/08 14:43	
Barium	mg/kg	ND	2.0	10/07/08 14:43	
Cadmium	mg/kg	ND	2.0	10/07/08 14:43	
Chromium	mg/kg	ND	2.0	10/07/08 14:43	
Lead	mg/kg	ND	2.0	10/07/08 14:43	
Selenium	mg/kg	ND	2.0	10/07/08 14:43	
Silver	mg/kg	ND	2.0	10/07/08 14:43	

LABORATORY CONTROL SAMPLE: 219325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	52.8	106	85-118	
Barium	mg/kg	50	53.8	108	84-118	
Cadmium	mg/kg	50	48.7	97	83-115	
Chromium	mg/kg	50	51.0	102	82-117	
Lead	mg/kg	50	49.0	98	83-116	
Selenium	mg/kg	50	47.9	96	82-116	
Silver	mg/kg	25	25.3	101	77-123	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219326 219327

Parameter	Units	5019533001		MSD		MS Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		Spike	Spike	MS	MSD							
Arsenic	mg/kg	ND	64.6	66.6	70.8	73.5	105	107	70-127	4	20	
Barium	mg/kg	92.2	64.6	66.6	160	160	58	57	60-140	0	20	M3
Cadmium	mg/kg	ND	64.6	66.6	57.9	61.5	86	89	65-120	6	20	
Chromium	mg/kg	46.7	64.6	66.6	121	132	90	104	60-130	9	20	
Lead	mg/kg	62.2	64.6	66.6	137	117	85	51	60-140	16	20	M3
Selenium	mg/kg	ND	64.6	66.6	61.3	63.1	93	93	60-130	3	20	
Silver	mg/kg	ND	32.4	33.3	33.6	34.4	104	103	70-130	2	20	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219328 219329

Parameter	Units	5019600002		MSD		MS Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		Spike	Spike	MS	MSD							
Arsenic	mg/kg	7.9	52.2	52.6	54.9	54.4	90	88	70-127	1	20	
Barium	mg/kg	69.6	52.2	52.6	125	121	107	98	60-140	4	20	
Cadmium	mg/kg	ND	52.2	52.6	40.9	41.6	78	79	65-120	2	20	

Date: 10/16/2008 09:41 AM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019600

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219328 219329

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Parameter	Units	Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Limits	RPD	Max
			5019600002	Spike Conc.									
Chromium	mg/kg	12.9	52.2	52.6	61.6	63.3	93	96	60-130	3	20		
Lead	mg/kg	44.5	52.2	52.6	80.5	90.3	69	87	60-140	11	20		
Selenium	mg/kg	ND	52.2	52.6	43.7	43.8	82	81	60-130	0	20		
Silver	mg/kg	ND	26	26.4	23.1	23.1	88	88	70-130	0	20		

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019600

QC Batch:	MERP/1835	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples: 5019600001, 5019600002, 5019600003, 5019600004, 5019600005			

METHOD BLANK: 219367                                  Matrix: Solid

Associated Lab Samples: 5019600001, 5019600002, 5019600003, 5019600004, 5019600005

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Mercury	mg/kg	ND	0.33	10/08/08 14:28	

LABORATORY CONTROL SAMPLE: 219368

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Mercury	mg/kg	.5	0.51	102	85-119	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219369                                  219370

Parameter	Units	5019533001	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike										
Mercury	mg/kg	ND	.64	.67	0.65	0.69	96	99	50-150	6	20			

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219371                                  219372

Parameter	Units	5019600002	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike										
Mercury	mg/kg	ND	.52	.52	0.67	0.69	127	131	50-150	3	20			

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219373                                  219374

Parameter	Units	5019275010	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike										
Mercury	mg/kg	ND	.55	.55	0.59	0.60	104	105	50-150	1	20			

Date: 10/16/2008 09:41 AM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019600

QC Batch: OEXT/9770 Analysis Method: EPA 8015 Mod Ext

QC Batch Method: EPA 3546 Analysis Description: EPA 8015 Modified

Associated Lab Samples: 5019600001, 5019600002, 5019600003, 5019600004, 5019600005

METHOD BLANK: 220492 Matrix: Solid

Associated Lab Samples: 5019600001, 5019600002, 5019600003, 5019600004, 5019600005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-ERO	mg/kg	ND	10.0	10/09/08 15:39	
n-Pentacosane (S)	%	88	45-170	10/09/08 15:39	

LABORATORY CONTROL SAMPLE: 220493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-ERO	mg/kg	83.3	68.3	82	41-139	
n-Pentacosane (S)	%			95	45-170	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 220494 220495

Parameter	Units	5019600002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-ERO	mg/kg	31.8	90.4	90.4	88.3	93.8	62	69	40-146	6	20	
n-Pentacosane (S)	%						82	94	45-170			

Date: 10/16/2008 09:41 AM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019600

QC Batch: PMST/2991 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 5019600001, 5019600002, 5019600003, 5019600004, 5019600005

SAMPLE DUPLICATE: 220923

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.1	6.6	21	5	R2

SAMPLE DUPLICATE: 220924

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.9	8.2	5	5	

Date: 10/16/2008 09:41 AM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd

Pace Project No.: 5019600

QC Batch: GCV/5691 Analysis Method: EPA 8015 Mod Pur

QC Batch Method: EPA 8015 Mod Pur Analysis Description: 8015 Solid GCV

Associated Lab Samples: 5019600001, 5019600002, 5019600003, 5019600004, 5019600005

METHOD BLANK: 222497 Matrix: Solid

Associated Lab Samples: 5019600001, 5019600002, 5019600003, 5019600004, 5019600005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	10/14/08 01:56	
4-Bromofluorobenzene (S)	%	69	40-159	10/14/08 01:56	

LABORATORY CONTROL SAMPLE: 222498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	8.5	85	79-128	
4-Bromofluorobenzene (S)	%			96	40-159	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 222499 222500

Parameter	Units	5019600002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	ND	10.5	10.1	6.8	6.7	60	62	40-135	1	20	
4-Bromofluorobenzene (S)	%						95	90	40-159		20	

Date: 10/16/2008 09:41 AM

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2600 Duncan Rd

Pace Project No.: 5019600

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### ANALYTE QUALIFIERS

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

R2 RPD value was outside control limits due to matrix interference

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																					
Company: <b>JWM Consulting</b>	Report To: <b>Broad Centrally</b>	Attention: <b>Donovan Wiltzsch</b>	Copy To: <b>Donovan Wiltzsch</b>	Company Name: _____	Address: _____																																																																																				
Address: _____	Purchase Order No.: _____	Reference: _____	Project Name: <b>2600 Duncan Rd</b>	Site Location: _____	DRINKING WATER <input type="checkbox"/>																																																																																				
Email To: <b>Dgentry@jwmc.com</b>	Project Number: _____	Manager: _____	Project Number: <b>2600 Duncan Rd</b>	STATE: _____	OTHER <input type="checkbox"/>																																																																																				
Phone: <b>317-547-1111</b>	Fax: _____	Pace Profile #: _____																																																																																							
Requested Due Date/TAT: <b>5 business days</b>																																																																																									
<table border="1"> <thead> <tr> <th colspan="2">SAMPLE ID (A-Z, 0-9, *, -)</th> <th colspan="2"># OF CONTAINERS</th> <th colspan="2">SAMPLE TEMP AT COLLECTION</th> </tr> <tr> <th>ITEM #</th> <th>Sample IDs MUST BE UNIQUE</th> <th>COLLECTED</th> <th>Preservatives</th> <th>ANALYSIS TEST</th> <th>PACE PROJECT NO./LAB ID.</th> </tr> </thead> <tbody> <tr><td>1</td><td>S. Jewell 4</td><td>SLC</td><td>10/03 8:50</td><td>✓</td><td>-001</td></tr> <tr><td>2</td><td>Stockpile 4 MS/MS</td><td>SLC</td><td>10/03 10:00</td><td>✓</td><td>-002</td></tr> <tr><td>3</td><td>S. JEWELL 5</td><td>SLC</td><td>10/03 11:20</td><td>✓</td><td>-003</td></tr> <tr><td>4</td><td>S. JEWELL 6</td><td>SLC</td><td>10/03 12:30</td><td>✓</td><td>-004</td></tr> <tr><td>5</td><td>Duplicate</td><td>SLC</td><td>10/03 —</td><td>✓</td><td>-005</td></tr> <tr><td>6</td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>7</td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>8</td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>9</td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>10</td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>11</td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>12</td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>						SAMPLE ID (A-Z, 0-9, *, -)		# OF CONTAINERS		SAMPLE TEMP AT COLLECTION		ITEM #	Sample IDs MUST BE UNIQUE	COLLECTED	Preservatives	ANALYSIS TEST	PACE PROJECT NO./LAB ID.	1	S. Jewell 4	SLC	10/03 8:50	✓	-001	2	Stockpile 4 MS/MS	SLC	10/03 10:00	✓	-002	3	S. JEWELL 5	SLC	10/03 11:20	✓	-003	4	S. JEWELL 6	SLC	10/03 12:30	✓	-004	5	Duplicate	SLC	10/03 —	✓	-005	6						7						8						9						10						11						12					
SAMPLE ID (A-Z, 0-9, *, -)		# OF CONTAINERS		SAMPLE TEMP AT COLLECTION																																																																																					
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2	Stockpile 4 MS/MS	SLC	10/03 10:00	✓	-002																																																																																				
3	S. JEWELL 5	SLC	10/03 11:20	✓	-003																																																																																				
4	S. JEWELL 6	SLC	10/03 12:30	✓	-004																																																																																				
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ADDITIONAL COMMENTS:		REINFORCED BY/AFFILIATION	DATE	TIME	SAMPLE CONDITIONS																																																																																				
<i>Attn: Chiggy</i>		<i>Stanley J. Wiltzsch</i>	<i>10/10/08</i>	<i>16:26</i>	<i>Y/N Y/N</i>																																																																																				
<i>Chain of Custody</i>		<i>Donovan Wiltzsch</i>	<i>10/10/08</i>	<i>16:26</i>	<i>Y/N Y/N</i>																																																																																				
ORIGINAL		ACCEPTED BY/AFFILIATION		DATE	TIME																																																																																				
<i>Donovan Wiltzsch</i>		<i>Donovan Wiltzsch</i>		<i>10/10/08</i>	<i>16:26</i>																																																																																				
PRINT NAME OF SAMPLER: <b>Donovan Wiltzsch</b>		SIGNATURE OF SAMPLER: <b><i>Donovan Wiltzsch</i></b>		DATE Signed (MM/DD/YY): <b>10/10/08</b>																																																																																					
Temp in °C _____		Ice (Y/N) _____		Samples intact (Y/N) _____																																																																																					
Received on _____		Custom Cooler (Y/N) _____		Samples intact (Y/N) _____																																																																																					

## Sample Condition Upon Receipt

Pace Analytical

Client Name: IWMProject # SO19600Courier:  FedEx  UPS  USPS  Client  Commercial  Pace Other  
Tracking #: \_\_\_\_\_

Optional:	Phone#
Proj. Due Date	_____
Proj. Name	_____

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  noPacking Material:  Bubble Wrap  Bubble Bags  None  OtherThermometer Used 123456 Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begunCooler Temperature 16° Biological Tissue Is Frozen: Yes  NoComments: \_\_\_\_\_  
Date and Initials of person examining contents: 10/30/08 mt

Temp should be above freezing to 6°C	Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
-Includes date/time/ID/Analysis Matrix:	<u>SL/AC</u>
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Pace Trip Blank Lot # (if purchased):	_____

## Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution:  
\_\_\_\_\_  
\_\_\_\_\_Project Manager Review: Kenneth HuntDate: 10/4/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

October 17, 2008

Mr. Brad Gentry  
IWM Consulting  
7428 Rockville Road  
Indianapolis, IN 46214

RE: Project: 2600 Duncan Rd.  
Pace Project No.: 5019629

Dear Mr. Gentry:

Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt

kenneth.hunt@pacelabs.com  
Project Manager

Illinois/NELAC Certification Number: 100418  
Indiana Certification Number: C-49-06  
Kansas Certification Number: E-10247  
Kentucky Certification Number: 0042  
Ohio VAP: CL0065  
Pennsylvania: 68-00791  
West Virginia Certification Number: 330

Enclosures

#### REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5019629001	Sidewall 7	Solid	10/06/08 10:30	10/06/08 15:39
5019629002	Sidewall 8	Solid	10/06/08 11:30	10/06/08 15:39
5019629003	Sidewall 9	Solid	10/06/08 13:00	10/06/08 15:39
5019629004	Sidewall 10	Solid	10/06/08 14:00	10/06/08 15:39
5019629005	Sidewall 11	Solid	10/06/08 14:30	10/06/08 15:39

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 2600 Duncan Rd.  
Pace Project No.: 5019629

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5019629001	Sidewall 7	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2
5019629002	Sidewall 8	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2
5019629003	Sidewall 9	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2
5019629004	Sidewall 10	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2
5019629005	Sidewall 11	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

**Sample: Sidewall 7** Lab ID: **5019629001** Collected: 10/06/08 10:30 Received: 10/06/08 15:39 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>32.4</b> mg/kg		11.0	1	10/09/08 00:00	10/09/08 18:14		
n-Pentacosane (S)	87 %		45-170	1	10/09/08 00:00	10/09/08 18:14	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		0.99	1		10/16/08 04:37		
4-Bromofluorobenzene (S)	85 %		40-159	1		10/16/08 04:37	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>17.0</b> mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:41	7440-38-2	
Barium	<b>53.8</b> mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:41	7440-39-3	
Cadmium	ND mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:41	7440-43-9	
Chromium	<b>17.4</b> mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:41	7440-47-3	
Lead	<b>17.1</b> mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:41	7439-92-1	
Selenium	ND mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:41	7782-49-2	
Silver	ND mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:41	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.37	1	10/07/08 00:00	10/08/08 15:45	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>8.8</b> %		0.10	1		10/09/08 21:05		

Date: 10/17/2008 09:02 AM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

**Sample: Sidewall 8** Lab ID: **5019629002** Collected: 10/06/08 11:30 Received: 10/06/08 15:39 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>26.4</b> mg/kg		10.7	1	10/09/08 00:00	10/09/08 18:21		
n-Pentacosane (S)	77 %		45-170	1	10/09/08 00:00	10/09/08 18:21	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		0.92	1		10/16/08 06:06		
4-Bromofluorobenzene (S)	88 %		40-159	1		10/16/08 06:06	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>6.6</b> mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:58	7440-38-2	
Barium	<b>58.9</b> mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:58	7440-39-3	
Cadmium	ND mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:58	7440-43-9	
Chromium	<b>13.3</b> mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:58	7440-47-3	
Lead	<b>22.9</b> mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:58	7439-92-1	
Selenium	ND mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:58	7782-49-2	
Silver	ND mg/kg		2.1	1	10/07/08 00:00	10/08/08 12:58	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.34	1	10/07/08 00:00	10/08/08 15:46	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>6.1</b> %		0.10	1		10/09/08 21:05		

Date: 10/17/2008 09:02 AM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

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**Sample: Sidewall 9**      Lab ID: **5019629003**      Collected: 10/06/08 13:00      Received: 10/06/08 15:39      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	ND mg/kg		10.3	1	10/09/08 00:00	10/09/08 16:14		
n-Pentacosane (S)	83 %		45-170	1	10/09/08 00:00	10/09/08 16:14	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.1	1		10/16/08 06:28		
4-Bromofluorobenzene (S)	90 %		40-159	1		10/16/08 06:28	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	5.0 mg/kg		2.0	1	10/07/08 00:00	10/08/08 13:04	7440-38-2	
Barium	16.8 mg/kg		2.0	1	10/07/08 00:00	10/08/08 13:04	7440-39-3	
Cadmium	ND mg/kg		2.0	1	10/07/08 00:00	10/08/08 13:04	7440-43-9	
Chromium	8.7 mg/kg		2.0	1	10/07/08 00:00	10/08/08 13:04	7440-47-3	
Lead	4.9 mg/kg		2.0	1	10/07/08 00:00	10/08/08 13:04	7439-92-1	
Selenium	ND mg/kg		2.0	1	10/07/08 00:00	10/08/08 13:04	7782-49-2	
Silver	ND mg/kg		2.0	1	10/07/08 00:00	10/08/08 13:04	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.34	1	10/07/08 00:00	10/08/08 15:47	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	2.8 %		0.10	1		10/09/08 21:05		

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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

**Sample: Sidewall 10** Lab ID: **5019629004** Collected: 10/06/08 14:00 Received: 10/06/08 15:39 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	ND mg/kg		10.9	1	10/09/08 00:00	10/09/08 17:03		
n-Pentacosane (S)	74 %		45-170	1	10/09/08 00:00	10/09/08 17:03	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.4	1		10/16/08 06:50		
4-Bromofluorobenzene (S)	90 %		40-159	1		10/16/08 06:50	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	7.1 mg/kg		2.2	1	10/07/08 00:00	10/08/08 13:10	7440-38-2	
Barium	80.6 mg/kg		2.2	1	10/07/08 00:00	10/08/08 13:10	7440-39-3	
Cadmium	ND mg/kg		2.2	1	10/07/08 00:00	10/08/08 13:10	7440-43-9	
Chromium	12.7 mg/kg		2.2	1	10/07/08 00:00	10/08/08 13:10	7440-47-3	
Lead	12.0 mg/kg		2.2	1	10/07/08 00:00	10/08/08 13:10	7439-92-1	
Selenium	ND mg/kg		2.2	1	10/07/08 00:00	10/08/08 13:10	7782-49-2	
Silver	ND mg/kg		2.2	1	10/07/08 00:00	10/08/08 13:10	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.36	1	10/07/08 00:00	10/08/08 15:52	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	8.3 %		0.10	1		10/09/08 21:05		

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## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

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**Sample: Sidewall 11**      Lab ID: **5019629005**      Collected: 10/06/08 14:30      Received: 10/06/08 15:39      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>25.9</b> mg/kg		10.6	1	10/09/08 00:00	10/09/08 17:46		
n-Pentacosane (S)	70 %		45-170	1	10/09/08 00:00	10/09/08 17:46	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.0	1		10/16/08 07:12		
4-Bromofluorobenzene (S)	91 %		40-159	1		10/16/08 07:12	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>6.7</b> mg/kg		1.9	1	10/07/08 00:00	10/08/08 13:15	7440-38-2	
Barium	<b>44.3</b> mg/kg		1.9	1	10/07/08 00:00	10/08/08 13:15	7440-39-3	
Cadmium	ND mg/kg		1.9	1	10/07/08 00:00	10/08/08 13:15	7440-43-9	
Chromium	<b>9.8</b> mg/kg		1.9	1	10/07/08 00:00	10/08/08 13:15	7440-47-3	
Lead	<b>16.8</b> mg/kg		1.9	1	10/07/08 00:00	10/08/08 13:15	7439-92-1	
Selenium	ND mg/kg		1.9	1	10/07/08 00:00	10/08/08 13:15	7782-49-2	
Silver	ND mg/kg		1.9	1	10/07/08 00:00	10/08/08 13:15	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.34	1	10/07/08 00:00	10/08/08 15:53	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>5.7</b> %		0.10	1		10/09/08 21:06		

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

QC Batch:	MPRP/3553	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	5019629001, 5019629002, 5019629003, 5019629004, 5019629005		

METHOD BLANK: 219714 Matrix: Solid

Associated Lab Samples: 5019629001, 5019629002, 5019629003, 5019629004, 5019629005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	10/08/08 10:01	
Barium	mg/kg	ND	2.0	10/08/08 10:01	
Cadmium	mg/kg	ND	2.0	10/08/08 10:01	
Chromium	mg/kg	ND	2.0	10/08/08 10:01	
Lead	mg/kg	ND	2.0	10/08/08 10:01	
Selenium	mg/kg	ND	2.0	10/08/08 10:01	
Silver	mg/kg	ND	2.0	10/08/08 10:01	

LABORATORY CONTROL SAMPLE: 219715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	53.5	107	85-118	
Barium	mg/kg	50	52.6	105	84-118	
Cadmium	mg/kg	50	51.4	103	83-115	
Chromium	mg/kg	50	53.2	106	82-117	
Lead	mg/kg	50	51.8	104	83-116	
Selenium	mg/kg	50	49.8	100	82-116	
Silver	mg/kg	25	26.4	106	77-123	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 219716 219717

Parameter	Units	MS Spike		MSD Spike		MS		MSD		% Rec Limits	RPD	RPD	Max Qual
		5019612002	Result	Conc.	Conc.	Result	Result	% Rec	% Rec				
Arsenic	mg/kg	4.2	60.4	61	62.5	53.8	96	81	70-127	15	20		
Barium	mg/kg	93.7	60.4	61	151	139	95	74	60-140	8	20		
Cadmium	mg/kg	ND	60.4	61	50.7	47.5	84	78	65-120	7	20		
Chromium	mg/kg	15.9	60.4	61	71.1	65.4	91	81	60-130	8	20		
Lead	mg/kg	8.3	60.4	61	61.2	56.2	88	78	60-140	9	20		
Selenium	mg/kg	ND	60.4	61	51.0	46.6	84	75	60-130	9	20		
Silver	mg/kg	ND	30.2	30.5	27.3	25.6	90	84	70-130	6	20		

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

QC Batch:	MERP/1836	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples: 5019629001, 5019629002, 5019629003, 5019629004, 5019629005			

METHOD BLANK: 219990	Matrix: Solid
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Associated Lab Samples: 5019629001, 5019629002, 5019629003, 5019629004, 5019629005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.33	10/08/08 15:13	

LABORATORY CONTROL SAMPLE: 219991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.51	103	85-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 219992 219993

Parameter	Units	5019612002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.6	.62	0.65	0.67	103	103	50-150	3	20	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

QC Batch: OEXT/9770 Analysis Method: EPA 8015 Mod Ext

QC Batch Method: EPA 3546 Analysis Description: EPA 8015 Modified

Associated Lab Samples: 5019629001, 5019629002, 5019629003, 5019629004, 5019629005

METHOD BLANK: 220492 Matrix: Solid

Associated Lab Samples: 5019629001, 5019629002, 5019629003, 5019629004, 5019629005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-ERO	mg/kg	ND	10.0	10/09/08 15:39	
n-Pentacosane (S)	%	88	45-170	10/09/08 15:39	

LABORATORY CONTROL SAMPLE: 220493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-ERO	mg/kg	83.3	68.3	82	41-139	
n-Pentacosane (S)	%			95	45-170	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 220494 220495

Parameter	Units	5019600002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-ERO	mg/kg	31.8	90.4	90.4	88.3	93.8	62	69	40-146	6	20	
n-Pentacosane (S)	%						82	94	45-170			

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

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QC Batch:	PMST/2992	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples: 5019629001, 5019629002, 5019629003, 5019629004, 5019629005			

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SAMPLE DUPLICATE: 221068

Parameter	Units	5019610001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.5	16.1	3	5	

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SAMPLE DUPLICATE: 221069

Parameter	Units	5019717006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.2	12.5	3	5	

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

QC Batch:	GCV/5718	Analysis Method:	EPA 8015 Mod Pur
QC Batch Method:	EPA 8015 Mod Pur	Analysis Description:	8015 Solid GCV
Associated Lab Samples:	5019629001		

METHOD BLANK:	223450	Matrix:	Solid
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Associated Lab Samples: 5019629001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	10/15/08 21:32	
4-Bromofluorobenzene (S)	%	72	40-159	10/15/08 21:32	

LABORATORY CONTROL SAMPLE: 223451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	8.6	86	79-128	
4-Bromofluorobenzene (S)	%			100	40-159	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

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QC Batch:	GCV/5719	Analysis Method:	EPA 8015 Mod Pur
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QC Batch Method:	EPA 8015 Mod Pur	Analysis Description:	8015 Solid GCV
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Associated Lab Samples: 5019629002, 5019629003, 5019629004, 5019629005

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METHOD BLANK:	223452	Matrix:	Solid
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Associated Lab Samples: 5019629002, 5019629003, 5019629004, 5019629005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	10/16/08 05:44	
4-Bromofluorobenzene (S)	%	76	40-159	10/16/08 05:44	

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LABORATORY CONTROL SAMPLE: 223453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	8.4	84	79-128	
4-Bromofluorobenzene (S)	%			98	40-159	

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## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2600 Duncan Rd.

Pace Project No.: 5019629

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		
Company: <b>JWM Consulting</b> Address: <b>7428 Rockville Rd</b> <b>Indianapolis, IN</b> Email To: <b>dgutierrez@jwmconsulting.com</b> Phone: <b>317-247-1111</b> Fax: Requested Due Date/TAT: <b>Standard</b>		Report To: <b>Bland Cemetery</b> Copy To: <b>Dominick Wilczynski</b> Purchase Order No.: Project Name: <b>2600 Duncan Rd</b> Project Number:		Attention: <b>5019629</b> Company Name: Address: Pace Quote Reference: Pace Project Manager: Pace Profile #:		
				REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER		
				Site Location STATE		
				Residual Chlorine (Y/N)		
				Requested Analysis Filtered (Y/N)		
				Analysts Test Y/N		
				Preservatives		
				# OF CONTAINERS		
				SAMPLE TEMP AT COLLECTION		
				Pace Project No./Lab ID.		
Section D Required Client Information		COLLECTED				
		MATRIX / CODE Drinking Water DW Water WWT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE COMPOSITE START COMPOSITE END/GRAB			
SAMPLE ID Sample IDs MUST BE UNIQUE (A-Z, 0-9, -, )						
ITEM #		DATE	TIME	DATE	TIME	
1	Sidewall 17	SL 6	10:06	10:30	6 3	
2	Sidewall 8	SL 6	10:06	11:30	6 3	
3	Sidewall 9	SL 6	10:06	13:00	6 3	
4	Sidewall 16	SL 6	10:06	14:00	6 3	
5	Sidewall 11	SL 6	10:06	14:30	6 3	
6						
7						
8						
9						
10						
11						
12						
ADDITIONAL COMMENTS		REINFORCED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
		<b>Danish J. Furr</b>	10/06/08	15:39	<b>1008155354 Y N -V</b>	
SAMPLE NAME AND SIGNATURE						
PRINT Name of SAMPLER: <b>Dominick Wilczynski</b>		SIGNATURE of SAMPLER: <b>Dominick Wilczynski</b>				
DATE Signed (MM/DD/YY): <b>10/06/08</b>						
Temp In °C Received on Custody Sealed Sealed Good (Y/N)		Samples intact (Y/N)				
F-ALL-Q-0204rev.07, 15-May-2007						

\*Important Note: By accepting this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



## Sample Condition Upon Receipt

Client Name: LWMProject # 5019629

Courier:  FedEx  UPS  USPS  Client  Commercial  Pace Other  
 Tracking #: \_\_\_\_\_

Optional	Printed Date
Print Name	_____ _____ _____

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  noPacking Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_Thermometer Used 103.56Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature \_\_\_\_\_

Biological Tissue Is Frozen: Yes No

Date and Initials of person examining contents: 10/6/08

Temp should be above freezing to 6°C

Comments: \_\_\_\_\_

Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>REB Terra core kit</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>SL</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

## Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_Project Manager Review: ANDate: 10/6/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

October 18, 2008

Mr. Brad Gentry  
IWM Consulting  
7428 Rockville Road  
Indianapolis, IN 46214

RE: Project: 2600 Duncan Rd.  
Pace Project No.: 5019709

Dear Mr. Gentry:

Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt

kenneth.hunt@pacelabs.com  
Project Manager

Illinois/NELAC Certification Number: 100418  
Indiana Certification Number: C-49-06  
Kansas Certification Number: E-10247  
Kentucky Certification Number: 0042  
Ohio VAP: CL0065  
Pennsylvania: 68-00791  
West Virginia Certification Number: 330

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2600 Duncan Rd.

Pace Project No.: 5019709

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5019709001	STOCKPILE 5	Solid	10/08/08 11:30	10/08/08 16:36

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 2600 Duncan Rd.  
Pace Project No.: 5019709

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5019709001	STOCKPILE 5	ASTM D2974-87	RAK	1
		EPA 6010	FRW	7
		EPA 7471	LLB	1
		EPA 8015 Mod Ext	RRB	2
		EPA 8015 Mod Pur	CEC	2

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Rd.

Pace Project No.: 5019709

**Sample: STOCKPILE 5** Lab ID: **5019709001** Collected: 10/08/08 11:30 Received: 10/08/08 16:36 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b> Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546								
TPH-ERO	<b>15.1</b> mg/kg		10.7	1	10/13/08 19:55	10/14/08 19:53		
n-Pentacosane (S)	78 %		45-170	1	10/13/08 19:55	10/14/08 19:53	629-99-2	
<b>8015 GRO 5035</b> Analytical Method: EPA 8015 Mod Pur								
Gasoline Range Organics	ND mg/kg		1.1	1		10/17/08 06:07		
4-Bromofluorobenzene (S)	90 %		40-159	1		10/17/08 06:07	460-00-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	<b>7.5</b> mg/kg		1.9	1	10/13/08 00:00	10/14/08 17:02	7440-38-2	
Barium	<b>51.5</b> mg/kg		1.9	1	10/13/08 00:00	10/14/08 17:02	7440-39-3	
Cadmium	ND mg/kg		1.9	1	10/13/08 00:00	10/14/08 17:02	7440-43-9	
Chromium	<b>11.1</b> mg/kg		1.9	1	10/13/08 00:00	10/14/08 17:02	7440-47-3	
Lead	<b>18.6</b> mg/kg		1.9	1	10/13/08 00:00	10/14/08 17:02	7439-92-1	
Selenium	ND mg/kg		1.9	1	10/13/08 00:00	10/14/08 17:02	7782-49-2	
Silver	ND mg/kg		1.9	1	10/13/08 00:00	10/14/08 17:02	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	ND mg/kg		0.36	1	10/10/08 00:00	10/13/08 15:45	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87								
Percent Moisture	<b>6.3</b> %		0.10	1		10/15/08 17:51		

Date: 10/18/2008 01:54 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019709

QC Batch:	MERP/1842	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
Associated Lab Samples:	5019709001		

METHOD BLANK: 221125 Matrix: Solid

Associated Lab Samples: 5019709001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.33	10/13/08 15:02	

LABORATORY CONTROL SAMPLE: 221126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.51	102	85-119	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 221127 221128

Parameter	Units	5019721006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.53	.51	0.56	0.54	104	102	50-150	5	20	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 221129 221130

Parameter	Units	5019727001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	mg/kg	ND	.54	.51	0.62	0.60	100	99	50-150	3	20	

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019709

QC Batch:	MPRP/3571	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	5019709001		

METHOD BLANK: 222024 Matrix: Solid

Associated Lab Samples: 5019709001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	10/14/08 16:51	
Barium	mg/kg	ND	2.0	10/14/08 16:51	
Cadmium	mg/kg	ND	2.0	10/14/08 16:51	
Chromium	mg/kg	ND	2.0	10/14/08 16:51	
Lead	mg/kg	ND	2.0	10/14/08 16:51	
Selenium	mg/kg	ND	2.0	10/14/08 16:51	
Silver	mg/kg	ND	2.0	10/14/08 16:51	

LABORATORY CONTROL SAMPLE: 222025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	52.0	104	85-118	
Barium	mg/kg	50	48.9	98	84-118	
Cadmium	mg/kg	50	51.4	103	83-115	
Chromium	mg/kg	50	51.5	103	82-117	
Lead	mg/kg	50	52.0	104	83-116	
Selenium	mg/kg	50	49.7	99	82-116	
Silver	mg/kg	25	24.6	98	77-123	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 222026 222027

Parameter	Units	5019748014		MSD		MS Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike	Spike Conc.	Spike	Spike Conc.							
Arsenic	mg/kg	5.8	53.5	54	50.3	50.4	83	83	70-127	0	20	
Barium	mg/kg	24.1	53.5	54	63.2	73.7	73	92	60-140	15	20	
Cadmium	mg/kg	ND	53.5	54	40.1	39.7	75	73	65-120	1	20	
Chromium	mg/kg	9.2	53.5	54	48.0	46.8	72	70	60-130	2	20	
Lead	mg/kg	5.9	53.5	54	48.3	47.3	79	76	60-140	2	20	
Selenium	mg/kg	ND	53.5	54	44.8	43.8	83	80	60-130	2	20	
Silver	mg/kg	ND	26.7	27	23.4	22.8	87	84	70-130	2	20	

Date: 10/18/2008 01:54 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019709

QC Batch:	OEXT/9849	Analysis Method:	EPA 8015 Mod Ext
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015 Modified
Associated Lab Samples:	5019709001		

METHOD BLANK: 222327	Matrix: Solid
----------------------	---------------

Associated Lab Samples: 5019709001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-ERO	mg/kg	ND	10.0	10/14/08 19:39	
n-Pentacosane (S)	%	77	45-170	10/14/08 19:39	

LABORATORY CONTROL SAMPLE: 222328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-ERO	mg/kg	83.3	55.1	66	41-139	
n-Pentacosane (S)	%			78	45-170	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 222329 222330

Parameter	Units	5019711015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-ERO	mg/kg	ND	93.2	93.2	54.7	53.7	48	47	40-146	2	20	
n-Pentacosane (S)	%						70	68	45-170		20	

Date: 10/18/2008 01:54 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019709

QC Batch:	PMST/3004	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	5019709001		

---

SAMPLE DUPLICATE: 223022

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.8	7.8	0	5	

---

SAMPLE DUPLICATE: 223023

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.7	6.5	2	5	

## QUALITY CONTROL DATA

Project: 2600 Duncan Rd.

Pace Project No.: 5019709

QC Batch:	GCV/5734	Analysis Method:	EPA 8015 Mod Pur
QC Batch Method:	EPA 8015 Mod Pur	Analysis Description:	8015 Solid GCV
Associated Lab Samples:	5019709001		

METHOD BLANK: 223936	Matrix: Solid
----------------------	---------------

Associated Lab Samples: 5019709001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	10/17/08 05:00	
4-Bromofluorobenzene (S)	%	78	40-159	10/17/08 05:00	

LABORATORY CONTROL SAMPLE: 223937	
-----------------------------------	--

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	10	8.9	89	79-128	
4-Bromofluorobenzene (S)	%			101	40-159	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 223938	223939
---	--------

Parameter	Units	5019711015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
Gasoline Range Organics	mg/kg	ND	8.6	9.2	4.7	4.9	50	49	40-135	5	20
4-Bromofluorobenzene (S)	%						88	85	40-159		20

## QUALIFIERS

Project: 2600 Duncan Rd.

Pace Project No.: 5019709

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:																																																																																					
Company: <b>JWM Consulting</b>	Report To: <b>Brad Gentry</b>	Copy To: <b>Donovan Wilczynski</b>	Attention: <b>Project Name: 2600 Duncan Rd</b>	Address: <b>1428 Rockville Rd, Indianapolis, IN 46260</b>	Pace Quote Reference: <b>Project Manager: Pace Profile #: Standard</b>																																																																																				
Address: <b>1428 Rockville Rd, Indianapolis, IN 46260</b>	Telephone: <b>(317) 347-1100</b>	Fax: <b>(317) 347-1101</b>	Project Number: <b>001</b>	Site Location STATE: <b>Indiana</b>	Residual Chlorine (Y/N): <b>NO</b>																																																																																				
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\*Important Note: By signing this form you are agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Samples intact (Y/N)

Custody Seal (Y/N)

Temp in °C

Received on

Date (MM/DD/YY):

Date Signed (MM/DD/YY):



# Sample Condition Upon Receipt

Client Name: IWMProject # 5019709Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  noPacking Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_Thermometer Used 123456Type of Ice: Wet  Blue  None  Samples on ice, cooling process has begunCooler Temperature 3.4°CBiological Tissue is Frozen: Yes  No

Comments:

Date and initials of person examining contents: 10-8-08

Temp should be above freezing to 6°C	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>TC req (4pc)</u>
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Soil</u>
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed      Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	18.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	19.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	20.
Pace Trip Blank Lot # (if purchased):		

## Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_Project Manager Review: PBDate: 10-9-08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

October 21, 2008

Mr. Brad Gentry  
IWM Consulting  
7428 Rockville Road  
Indianapolis, IN 46214

RE: Project: 2600 Duncan Road  
Pace Project No.: 5020008

Dear Mr. Gentry:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kenneth Hunt

kenneth.hunt@pacelabs.com  
Project Manager

Illinois/NELAC Certification Number: 100418  
Indiana Certification Number: C-49-06  
Kansas Certification Number: E-10247  
Kentucky Certification Number: 0042  
Ohio VAP: CL0065  
Pennsylvania: 68-00791  
West Virginia Certification Number: 330

Enclosures

## REPORT OF LABORATORY ANALYSIS

Page 1 of 9

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## SAMPLE SUMMARY

Project: 2600 Duncan Road  
Pace Project No.: 5020008

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5020008001	Background NE	Solid	10/20/08 08:00	10/20/08 13:48
5020008002	Background NW	Solid	10/20/08 08:00	10/20/08 13:48
5020008003	Background SW	Solid	10/20/08 08:00	10/20/08 13:48

## REPORT OF LABORATORY ANALYSIS

Page 2 of 9

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## SAMPLE ANALYTE COUNT

Project: 2600 Duncan Road  
 Pace Project No.: 5020008

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5020008001	<b>Background NE</b>	ASTM D2974-87	ILP	1
		EPA 6010	FRW	1
5020008002	<b>Background NW</b>	ASTM D2974-87	ILP	1
		EPA 6010	FRW	1
5020008003	<b>Background SW</b>	ASTM D2974-87	ILP	1
		EPA 6010	FRW	1

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Road

Pace Project No.: 5020008

Sample: Background NE      Lab ID: 5020008001      Collected: 10/20/08 08:00      Received: 10/20/08 13:48      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	<b>8.4</b>	mg/kg	2.3	1	10/20/08 00:00	10/21/08 10:22	7440-38-2	
<b>Percent Moisture</b>	Analytical Method: ASTM D2974-87							
Percent Moisture	<b>16.4</b>	%	0.10	1		10/20/08 14:40		

Date: 10/21/2008 03:36 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Road

Pace Project No.: 5020008

Sample: Background NW      Lab ID: 5020008002      Collected: 10/20/08 08:00      Received: 10/20/08 13:48      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	<b>2.8</b>	mg/kg	2.1	1	10/20/08 00:00	10/21/08 10:28	7440-38-2	
<b>Percent Moisture</b>	Analytical Method: ASTM D2974-87							
Percent Moisture	<b>4.3</b>	%	0.10	1		10/20/08 14:41		

Date: 10/21/2008 03:36 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2600 Duncan Road

Pace Project No.: 5020008

**Sample: Background SW**      **Lab ID: 5020008003**      Collected: 10/20/08 08:00      Received: 10/20/08 13:48      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	<b>8.6</b>	mg/kg	2.2	1	10/20/08 00:00	10/21/08 10:33	7440-38-2	
<b>Percent Moisture</b>	Analytical Method: ASTM D2974-87							
Percent Moisture	<b>14.4</b>	%	0.10	1		10/20/08 14:41		

Date: 10/21/2008 03:36 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Road  
Pace Project No.: 5020008

QC Batch:	MPRP/3600	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples: 5020008001, 5020008002, 5020008003			

METHOD BLANK: 224451 Matrix: Solid

Associated Lab Samples: 5020008001, 5020008002, 5020008003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	10/21/08 09:19	

LABORATORY CONTROL SAMPLE: 224452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	51.5	103	85-118	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 224453 224454

Parameter	Units	5019747081 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Arsenic	mg/kg	11.1	54.8	52.2	53.6	47.9	78	71	70-127	11	20	

Date: 10/21/2008 03:36 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 2600 Duncan Road

Pace Project No.: 5020008

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QC Batch: PMST/3021 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 5020008001, 5020008002, 5020008003

---

SAMPLE DUPLICATE: 224621

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.4	17.0	4	5	

Date: 10/21/2008 03:36 PM

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 2600 Duncan Road  
Pace Project No.: 5020008

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																																						
Company: <u>MM Consulting</u>	Report To: <u>Brill Country</u>	Attention: _____	Company Name: _____	Address: _____	REGULATORY AGENCY																																																																																																					
Address: <u>7429 Rockville Rd</u>	Copy To: _____	Pace Quote Reference: _____	<input checked="" type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER																																																																																																					
City: <u>Indianapolis</u>	Purchase Order No.: _____	Pace Project Manager: _____	<input type="checkbox"/> US	<input checked="" type="checkbox"/> RCRA	<input type="checkbox"/> OTHER _____																																																																																																					
Email To: <u>bac@brillconstruction.com</u>	Project Name: <u>2600 Duncan Rd</u>	Pace Profile #: _____	Site Location STATE: _____																																																																																																							
Phone: <u>(317) 347-7111</u> Fax: _____	Project Number: _____	Residual Chlorine (Y/N)			Page: <u>1249677</u> of <u>1</u>																																																																																																					
Requested Due Date/TAT: <u>ASAP (24 hrs)</u>	_____	Requested Analysis: Filtered (Y/N)			_____																																																																																																					
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Section D Required Client Information		Pace Project No / Lab ID <u>50200008</u>																																																																																																								
		Temp In °C _____																																																																																																								
		Received on _____																																																																																																								
		Sealed Container (Y/N) _____																																																																																																								
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## Sample Condition Upon Receipt

Client Name: IWM Project # 5020008Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other  
Tracking #:Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Priority	High
Prepared Date	10/10/08
Prepared Name	

Packing Material:  Bubble Wrap  Bubble Bags  None  OtherThermometer Used 123456 Type of Ice: Wet Blue  None  Samples on ice, cooling process has begunCooler Temperature 20.4°Biological Tissue Is Frozen: Yes  NoDate and Initials of person examining contents: 10/10/08

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>24 hr.</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>SOM</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

## Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Project Manager Review: \_\_\_\_\_

A  
Date: 10/10/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, Incorrect preservative, out of temp, incorrect containers)